WORLD'S FINEST

ELECTRONIC SURPLUS

37

ANNIVERSARY

TH

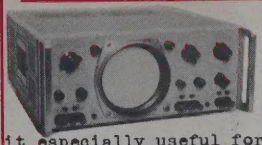
947 1984

CATALOG WS-84

MANY NEW ITEMS

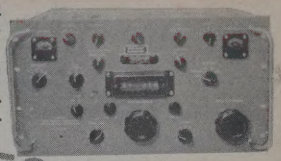
CHECK EVERY PAGE!

HEWLETT-PACKARD SCOPE



HEWLETT-PACKARD OSCILLOSCOPE, general purpose unit with 500 Khz bandwidth on all ranges plus 0.2 mv/cm sensitivity for X and Y amplifiers making it especially useful for phase measurements. Sensitivity 0.2 mv to 20 V/cm over 16 calibrated steps in 1-2-5-10 sequence and vernier to 50 v/cm. Sweep 1 usec to 5 sec/cm in 21 calibrated steps; vernier to 12.5 sec/cm. Also 350 Hz squarewave calibrator, X2/X50 magnifier, auto triggering, beam finder. Input 1 megohm shunted by 45 pf. 115/230 VAC 50-1000 Hz; w/partial repro manual. 7¼x16¾x18½, 38 lbs sh. Used-reparable $145. Checked $195

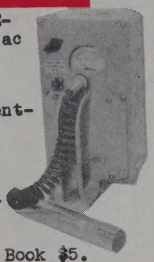
R-390A/URR HF RECEIVER



R-390A/URR RECEIVER famous military set covers 0.5 to 32 Mhz AM-CW-MCW in 31 one Mhz bands read directly on mechanical digital counter. 455 Khz final IF; has four Collins mechanical filters allowing 2-4-8-16 Khz selectable bandwidth. Calibration points every 100 Khz; also BFO, AGC, dial locks, 600 ohm audio out, Line and Carrier Level meters. Rackmount; no covers; requires 115/230 VAC 60 Hz. 10½x19x16¾; 95 lbs sh (UPS in 2 pkgs or MF). Used-reparable, ~~$995~~. $215. Checked ~~$450~~ $335. Manual, partial repro $15.

SPECIAL

PDR-27 RADIAC SET

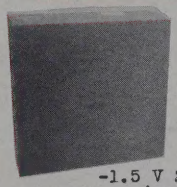


AN/PDR-27 PORTABLE RADIATION DETECTOR consisting of IM-74 radiac meter and DT-53 detector probe with BS-1 Geiger-Mueller tube. Meter indicates amount of beta and gamma radiation in milliroentgens per hour. Range scale for 0.5, 5, 50, and 500 M-rtngs/hr. BNC connection for headset monitoring. Uses batteries (not available) which must supply 135 VDC, 22.5 VDC, and 1.5 VDC. 8x6x12½, 15 lbs sh wt. Used, $29.95; Transit case $6. Book $5.

SSB CONVERTER

CV-1982/TSC-26 SINGLE SIDEBAND CONVERTER for receivers having final IF's of 455 Khz such as R-390 and SP-600. Features 3" square -20-0-+3 VU meter and 1⅝" sq carrier and subcarrier meters. Has dual function switch Meter RTO Center-AF Out and Monitor AF Out-AFC PIPS; also switches Direct-Inverted (USB-LSB) Spectrum Translation, AF Gain, AFC, Tune. W/nuvistors 7586, 17/7587, 7895, 4/8056. Requires 115 VAC 60 Hz; 5¼x19x16¼, 29 lbs. Used-reparable $155

BA-279 BATTERY PACK



BA-279/U BATTERY, intended to power AN/PRC-8-9-10 or Canadian PRC-509-510 backpack transceivers. However, pack can be readily dissassembled to utilize the different cell voltages for other power uses. Cell outputs: +1.5 V 675 ma (A1), -1.5 V 250 ma (A2), +67 V 25 ma (B1) +135 V 50 ma (B2), and 6 V 400 ma (C). Batteries have 2/79 dates and have been in cold storage thru 3/84; not rechargeable. 8½x8¼x2¼ 7 lbs sh. Unused, $8.95 each; Case of 12, $80

SPECIAL

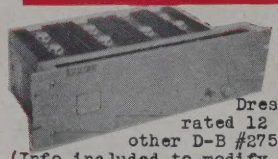
* *

BA-4386 LONG-LIFE MAGNESIUM BATTERY for backpack radios AN/PRC-25-77; output (as supplied to PRC-25-77): 12.5 VDC 600 ma (receive), 12.5 VDC 1.4 amp and 3 VDC 400 ma (transmit) Estimated battery life: 30 hours 9:1 R/T ratio. 4/80 date code; cold storage thru 3/84. 3½x9½x2, 3 lbs. Unused $6.95; 8/$40.00

ANTENNA COUPLER

CU-1638/GR SOLID-STATE ANTENNA COUPLER, allows use of upto six receivers in the 2-30 Mhz range on the same antenna. 3 db gain; 7 db max noise figure. 50 ohm input and output impedances. Includes 500 microammeter to monitor channels, "N" connections, shunt and series lightning protection. Requires 115/230 VAC 50-60 Hz; 3½x19x9, 15 lbs sh. Unused w/book, $59.50

12 VDC 4/8 AMP SUPPLY



PP-4887/UGA-8 SOLID-STATE POWER SUPPLY, consists of two independent modular power supplies: one Dressen-Barnes #27544 rated 12 VDC 8 amps out; the other D-B #27543 rated 12 VDC 4 A. (Info included to modify for 10-15 VDC out.) Terminal for + or -12 V out. Requires 103-127 or 206/254 VAC 47-400 Hz. Front has fuse and On-Off switch. 5¼x19x8, 36 lbs. Unused $49.50

D-B #27543 12 V 4 A modular supply only, $25.
D-B #27544 12 V 8 A " " " , $38.

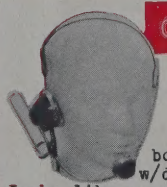
R-2174 VLF RECEIVER

R-2174/URR VOLTMETER-VLF RECEIVER, Rycom frequency selective voltmeter used by gov't as 0.3 to 420 Khz AM-LSB-USB receiver. Six bands; selectable bandwidth 0.1-3-10 Khz. Built-in VTVM has full scales 0.0003 to 30 Vrms in 11 ranges, 3-10-30 sequence; -70 db to +30 db, 10 db steps. Also 135-600 ohm-Bridge unbalanced and balanced select, speaker, and phone jack. Requires 115 VAC 60 Hz; 9x19x7, 25 lbs. W/partial repro book. Reparable $125. Checked $195.

TI 732 DATA TERMINAL

TEXAS INSTRUMENTS 732 ELECTRONIC DATA TERMINAL, a Silent 700 Series KSR unit intended for TTY communication using five level baudot code, 20 ma neutral current loop. Send-receive selectable speeds of 50, 75, and 100 baud (6.67, 10, or 13.33 cps). Upper case only 37-key standard format keyboard hass 55 printable characters and five print functions Printer has solid-state printhead with 5 x 7 dot matrix heating elements; uses 8x10 thermal paper allowing for quiet operation. Provision for adapting to RS-232C interface or acoustic couplers. Requires 115 VAC 60 Hz. 6½x20¼x19½, 45 lbs sh. Unused w/book, $185.00 THERMAL PAPER f/732, 300' roll. $11. 3/$30.

OPERATOR HEADSET



WESTERN ELECTRIC TYPE 52 OPERATOR'S HEADSET w/BOOM MIC, lightweight set has single receive element of approx 150 ohms DC resistance; mic on 8" boom 50-70 ohms DC res. 5' cord w/dual PI-55 style plug (WE396A). Looks like a good headset for various intercom situations; 2 lbs sh. Used-excellent $17.

ORDERING INFORMATION SEE PAGE 2

MINIMUM ORDER $5.00

Fair Radio Sales Co.

P.O. Box 1105 - - 1016 E. Eureka St.

Lima, Ohio 45802

419/223-2196

419/227-6573

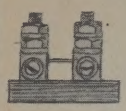
CATALOG INFORMATION

This IS the only catalog we will issue this year.

A supplement will be sent in the Fall.

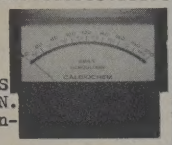
FAIR RADIO SALES CO., INC.

1016 E. EUREKA, BOX 1105, LIMA, OHIO 45802
TELEPHONE: AREA CODE 419 227-6573



SHUNT

50 MV. 15 AMP SIZE: 2x1¾x1½ 6625-810-6742 UNUSED $2.50

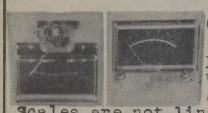


FS=50 UA w/ mirrored scale, zero adj. Scale: 4.0-20.0 GMS % HEMOGLOBIN. Mount on panel front or behind. Fits 2¾" dia. hole. 5½x6x2; Beede mfg., $7.95

CALBIOCHEM meters, FS=50 UA 2-3/8" square. Used, $4.95 #200037, 0-150 -350% GLUCOSE scale. #200039, 0-.3% BLOOD ALCHL. #200056, 4-24% HEMOGLOBIN

DC AMMETERS by Mercer Electronics, 3½x3½; fits in 2¾" dia hole. FS=50 MV; NEW. 0-300 ADC $7.95 0-800 ADC $7.95

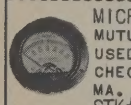
0-50 KV DC & 0-20 VDC scale FS=1 MA DC; 4½x4 blk face. Mercer Elec mfg. NEW #MER-50KV-20V, ~~$5.95~~ $4.95



CB METERS clear plastic w/black scales. Scales are not linear. Size: 1-9/16" sq. NEW $2 ea

#PWR-S/CBM, as above but 0-5 pwr, 1-9 S-units. #S-PWR/CBM, FS=200 ua (75 ua ctr); 1-9 "S", 1-5 pwr.

CLEAR PLASTIC METERS, 2-3/8" sq. fit 2-1/8" dia. hole. EMI mfg. Unused. #D1145-2, 0-5-50 MADC, FS-5 madc, $4.95 #D1159-1, 0-50-500 MADC scale, FS=50 madc, $4.95 #D3630, 0-3 VDC, $4.95



MICROMHOS DYNAMIC MUTUAL CONDUCTANCE USED IN 1-177 TUBE CHECKER BASIC 0-1.4 MA. HICKOK #M547A STK# 3F1350 $4.95

TV-2 REPLACEMENT METER, 0-250 SCREEN VOLTS, FS=1 MA. 2¾" RD. SEALED. NEW $5.95

DECIBELS

-10-0-6+ DB 6MW 600 OHMS 2½" RD. WEST. 2837 $4.95

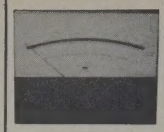
-12-0-8+ DB 100 UA=FS 3½"RD BLK. RUGG. WAC4586 N $7.95

-12-0-+8 DB, FS=100 ua, 3½" rd. blk. face. Used, $5.95

-20-0-3+ DB FS-199 MUA 2½"R #GA50934 USED $4.95

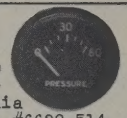
OTHER VALUES IN STOCK, WRITE

POWER SET +6 TO 0 TO-3 2¾" RD. FS-200 UA, WACLINE 1496/400 RUGG/SEAL U $3.95



MULTIMETER by Modutec, zero adjust; scale 0-100 VDC, 0-75-150 MADC Full scale is 100 ua; 3x2½, fits 2-1/8" dia hole. #821155, unused, $5.95

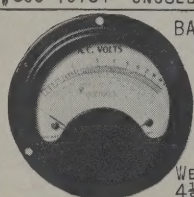
47-84 METER ASSORTMENT, five U.S. mfg meters 2½"-3½"-up; mixed odd scales, FS-100 ua and up--no choice $10/asst



PRESSURE METER 0-30-60 in increments of 10; electrical type as used in mil-vehicles. 2½" dia O.D. green rim; #6620-514 -4662, unused, $5.95 ea

BATTERY CHARGE, FS=10 amps redline 6 A; 2¾" rd, Benwood-Linze mfg. Unused, $4.

ROENTGENS PER HOUR METER 50 MICROAMPERE D.C FULL SCALE 3½" RUGGEDIZED REMOVEABLE PLASTIC LENSE, BLACK FACE. TOP SCALE 0-500, LOWER 0-10 #300-10764 UNUSED $3.95



BALLENTINE V.T.V.M. METER ONLY AC VOLTS 1-10 DECIBELS 0-20 WESTON 643 4½" OR EQ. MFG. PT. NO. 205007 NEW STK#6625-557-0899 $8.95

VACUUM GAUGE 0-30" vacuum scale (0-10-15 -20 not graduated); 2-1/8" dia Marshalltown mfg #EC-324, NEW, $4.50

ME-68/PRC-14 0-200 UA meter consists of 1¾" dia meter in rubberized housing w/U-77 plug on rear. Meter easily removed. 3x1¾ dia; NEW $5.

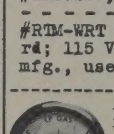
Other SMALL METERS, 1¾" sq sealed types; used, $6 ea: #20UA10 0-20 as FS-200 ua. #6719 -20-0-+20 as FS=1 ma. #M/618S, 0-10 scale FS=2 MA white face; used.

#BA/T195, FS-25 ma, 0-500 scale; black face, used. #ME/GRC, FS-1 ma black face; p/o RT66-7-8, used.

RUNNING TIME

GENERAL TIME 2¾" rd running time meters; 6 places to .1 NEW $14.95 each: #GH30016, 120 VAC 60 Hz #MU30019, 220 VAC 50 Hz #HH30220, 120 VAC 50 Hz

#RTM-WRT 5-PLACE METER, 3½" rd; 115 VAC 60 Hz. Various mfg., used, $9.95



LP-GAS METER, 0-1 VDC full scale. Mounts in 2" dia. hole. Chrome finish #48560-2, $1.50 ea.

STORE HOURS
9 A.M. to 5:30 P.M.
MONDAY THRU FRIDAY
9 A.M. TO 1 P.M. SATURDAY

TERMS

PRICES NET, F.O.B. LIMA, OHIO SEND MONEY ORDER, CERTIFIED CHECK, VISA, or MASTERCARD with PURCHASE ORDER for IMMEDIATE SERVICE.

We reserve the right to hold an order accompanied by personal or company check until after check clears the banks.

MINIMUM ORDER $5.00
PLUS SHIPPING CHARGES

Include sufficient money for shipping charges. (UNUSED PAYMENTS RETURNED AT ONCE.) Otherwise we will send shipping charges collect.

C.O.D. ORDERS, SEND 50% of PURCHASE with ORDER. CASH BALANCE will be COLLECTED UPON DELIVERY.

When writing for information PLEASE state what specific information you desire.

DESCRIPTIONS

ALL MATERIAL OFFERED IN THIS CATALOG IS IN "USED-COMPLETE" CONDITION, UNLESS QUALIFIED AND/OR NOTED AS "RECONDITIONED," "UNUSED," OR "NEW."

MERCHANDISE IS NOT OPERATIONALLY CHECKED UNLESS SPECIFIED AS "CHECKED."

EQUIPMENT DESCRIBED AS "REPARABLE"--MEANING "ABLE TO BE REPAIRED"--IS ELECTRO-MECHANICALLY COMPLETE, BUT REQUIRES SOME TROUBLESHOOTING BY THE CUSTOMER.

AC VOLTMETERS

0-2 VAC 2½" dia; Simpson Model 125, used, $4.95

0-8 VAC, 3½" rd; various manufacturers, used $6.95

0-10 VAC 2½" rd. $4.95 3½" rd or sq $5.95 var.mfg.

0-30 VAC 400 Hz 3½" rd; Weston 476, unused, $5.95

30-150 VAC 60 Hz, various mfg: 2½" rd., used, $6.95

0-300 VAC, 2½" rd, used $6.

0-100 VAC, 3½" rd., Hickok Model 47M, used, $5.95

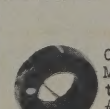
0-15 VAC, 3½" rd., various mfg., used, $5.95

0-150 VAC, 1¾" sq clear plastic; Pace mfg. NEW $7.

AC AMMETERS

0-250 MA AC expanded scale 3½" rd Weston 476. Used $9

0-125 ACA FS=5 A for 400 Hz; 3½" rd. Hickok $9.95



CURRENT TRANSFORMERS for AC ammeters; unused. #7150, ratio 260: 5 A, 40 VA 50-125 Hz; 1½x4" dia, $4.95 #3947, ratio 200:2.5 A 5VA 400 Hz; 1½x3¼" dia, $2.95

D.C. MILLIAMPS.

FS=1 MADC, 0-1.0-50 scale, 3½" rd clear case; Used $5.

0-3 MA-DC, 3½" rd. sealed. #4081, unused. $6.95

0-15 DC MA, 3½" rd sealed; various mfg. Used, $5.95

0-100DCMA 100MA. MOVE. 3½"RD.RUGG. #4265 N $6.95

0-150 DCMA SC. USED 3½" RD. STD.CAY22061 $5.95

0-200 DCMA SC. 2½" RD.USED #MR25200DCMA $3.95

0-200 ma dc, 3½" rd, various mfg. Used, $5.95

0-20 MA-DC, 3½" rd. Various mfg. Used, $5.50 Unused $7.

0-500 ma dc 3½" sq, bent pointer tip; used $4.95

0-300 MA DC, 3½" rd, clear plastic case. Used $5.95

1-0-1 MADC, 2½" rd sealed; various mfg., used, $5.95

0-50 MADC, 3½" rd., various mfg., used, $6.95

100-0-100 MA DC, 3½" rd Weston 301; Used, $5.95

D.C. MICROAMPS.

0-200 UADC, 3½" rd, various mfg; used, $5.95

0-200 UADC and -8-0-+6 DB, 2½" rd. sealed, new, $4.95

0-500 UADC, 2½" rd sealed; various mfg. Used, $4.95

0-100 UADC, 2½" rd sealed; various mfg. Used, $4.95

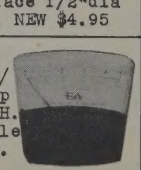
FS=20 UA DC, 0-2 ma indicated; 3½" rd, $6.95

50 UA MOVEMENT, SCALE -30, 0, 150, POINTER AT ZERO, SEALED, 2½RD USED TRC30150 $4

0-5-10-20 Peak Volts, FS-500 ua; 2½" rd Weston 1021 sealed. Used, $4.50

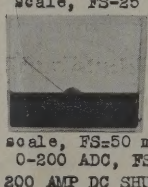
FS=50 UA DC, 0-50 ua & 250 ma scale; 3½" sq. NEW $7.

CLEAR PLASTIC FS=100 UA METER with non-linear SWR and 0-20 W scales; 2-3/8" sq face f/2"dia hole. #SWR-020, NEW $4.95



FAN-SHAPED METERS, plastic w/ zero adj. 3" top 2¾" bottom; 3" H. Fits 2" dia. hole EMI mfg. Unused.

#EMI-5VDC, 0-5 VDC, $5.95 #EMI-25VAC, 0-25-250 VAC scale, FS-25 VAC, $5.95



JEWELL MODEL 73T METERS, 3½x3 for 2½" dia hole-NEW 0-15 VDC $7. 0-20 VDC scale, FS=50 mv, $6.95 0-200 ADC, FS=50 mv, $7.95

200 AMP DC SHUNT for 50 mv meter movements; 6x1¾, 1 lb GE#200A-50MV, NEW, $8.00

* * * * * * * * * * * * * * *

JEWELL 73T 0-200 ADC meter w/GE 200 amp shunt, $15.00

D.C. VOLTMETERS

0-100 VDC, 3½" rd clear plastic case; used, $5.95

0-15-600 VDC, 2½" rd black face; w/mult. code-Used $6.

0-2 VDC 2½" sq, Simpson mfg for TMC; used, $5.95

0-5 VDC, 3½" rd., various mfg., used, $6.95

0-80 VDC 3½" rd; various mfg., unused, $6.95

0-100VDC SC. 2½" RD.RUGGED #9545 NEW $5.95

0-750 VDC, 3½" sq Simpson; used, $5.95

0-200 VDC, 3½" rd. sealed; various mfg. Used, $6.95

0-300 VDC, 2½" round; various mfg. Unused $5.95

0-500VDC SC. 3" SQ. #231-1624 USED $5.95

0-1000 VDC, FS=500 ua, 3½" sq. Hoyt mfg. #1075 New $6.

KILOVOLT DC, FS=1 MA:
0-3 KVDC, 2½" rd new $5.95
0-600-1500 2½" rd used $6.

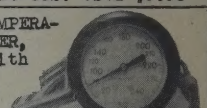
OTHER VALUES IN STOCK, WRITE

R.F. AMMETERS

0-15 RF AMMETER, 3½" rd.; various mfg. Used, $16.95

ART-13 0-5 ANTENNA CURRENT, FS=250 ma; external transformer coil not available; 2½" rd black face. Used $5.

0-10 ANTENNA CURRENT, 2½" rd black face w/thermocouple; p/o BC-442. Used $9.95



WATER TEMPERATURE METER, 3" dia with 20-240 F expanded scale. W/6 ft copper capillary. #261-9858, NEW $14.

DC AMMETERS

0-5 AMPS DC TRIPLETT 420G 4½x4 w/zero adjust and mtg bezel. #KS19563L2, Used $12.95

WESTON 1941, 0-500 AMPS DC FS=50 mv; 4½x4, used, $12.

0-15 AMPS DC FULL SCALE, 2-3/8" square; 2-hole flange mount 3-3/16" across. Emico #D2877, NEW, $6.95 $4.95

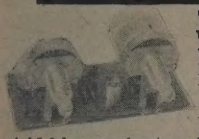
WESTERN ELECTRIC 3½" round clear plastic case; used: 0-15 ADC $12. 0-10 ADC $12.

DC AMMETERS, FS=50 mv:
0-30 ADC 2½" rd; NEW $6.95
0-200 ADC 2½" rd NEW $6.95
0-1500 ADC 3½" rd used $7.

BIG LOOK

0-20 DCA SCALE 50 MV 3½" N $8.

TRANSISTOR AUDIO AMP

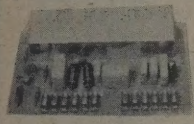


TRANSISTOR AUDIO AMPLIFIER w/5-transistors, on-off-volume and tone controls. Inputs for ceramic or crystal phono cartridges. Other possible uses as home-brew receiver, intercoms, child's projects. Use with 8 or 16 ohm 3" or 4" speaker. Req 6-9 V AC or DC; with schematic. 1½x2¼x3¼. #ER-10-1231 NEW $2.95; 2/$5.00 -100, 500, 1K LOT QUANTITY PRICES AVAILABLE-

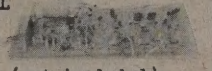
HARMON-KARDON PCB

HARMON-KARDEN AUDIO COMPONENT CIRCUIT BOARDS, all new surplus with schematics:

STEREO TONE CONTROL BOARD with ganged treble, bass, volume control balance pots. Tone controls are each 2/dual 50K; volume is 4-gang 100K. Also 3/4PDT push on/push off switches, 6 transistors; -26 VDC req. #HK-0866, $5.00



TONE CONTROL-AUDIO EQUALIZER, five ranges: 60, 320, 1K, 5K, 12K Hz. Requires addition of five 50K ohm slide resistors (not available) and -30 VDC. W/similar circuit diagram; 4½x3. #HK-1561, $2.50 ea



POWER SUPPLY/SPEED CONTROL BOARD for record player. Consists of speed control circuit for 33/45 RPM player using 29 VDC motor (not included). Has 22 transistors w/usable lead lengths, two opto couplers (4N27). An interesting gadget board w/schematic. #HK-134450, $2.25

RECTIFIER-CAPACITOR CIRCUIT BOARD, has capacitors: 7/47 mf 100 V, 2/47 mf 63 V, 2/500 mf 50 V. 6x3x1¾, 1 lb. #HK-26239B, $1.50

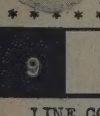
DOLLAR DAZE

PLEASE ORDER BY NUMBER. Unit prices only as indicated. Look for more DOLLAR DAZE throughout this catalog.

* *

40-81 8" x 17" PLEXIGLASS SHEETS, 1/8"th Specify SMOKED, $1.25

* *



41-81 LOUD BUZZER HORN as used in smoke alarms; 2" dia x1¼". 6 VDC $1.25 ea; 12 VDC $1.35 ea; 115 VAC $1.45 ea

* *

9 RECEIVER-TRANSMITTER CHASSIS, solid-state, broadcast band. $2.00

43-83 LINE CORD, 2-conductor #18 gauge as on aplliances; 6 feet long, white. NEW, 3 for $1.25

23-77 BRASS COUPLINGS for 3/8" dia. x 3/4" long shafts. 3 for $1.00

25-77 MOBILE RADIO PLATE w/switch light, jack, 6' 10-cond. cable. Plate 3½x3½. $1.00

44-83 49 Mhz WALKIE-TALKIE PC BOARD, no speaker or mic; 9 VDC req. $1.50 ea, 3 for $3.

MIXED HARDWARE: screws, nuts, washers removed f/equip. Usable; 3 lbs. $1.00 **30**

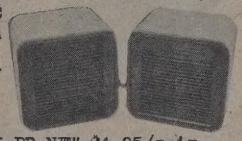
42-82 RUBBER EQUIPMENT FEET 1-1/8" dia rubber with 1"L #¼x20 bolt; w/o nut. 8/$2.00

LEVEL METER, FS=150 UA, 3/8x7/8 face; o/a 1x1x½. $1.00 3/$2.00 **39-78**

38-79 SPEAKER, 3" dia. 8 , 1 watt. Sanpo SP024, new, $1.00

SPEAKERS

BOOKSHELF SPEAKER in walnut-grained vinyl-covered 7x10¼x2¾ enclosure. Has 4" dia 16 ohm 1 W speaker and 6 foot cord with RCA plug; 2 lbs sh. #ER-WD-SPK NEW $4.50 ea 2/$7.



SPEAKER PAIR in PLASTIC ENCLOSURES, each 4" dia 16 ohm 1 W speaker in attractive 6¾x6¾x5¼ enclosure with 6' cord and RCA plug. White & black plastic per pic; 4 lbs sh wt. #ER-PL-SPK-PR NEW $4.95/pair.

SPEAKER WRAP for assembling 10½x20x4 walnut-grained vinyl-covered enclosure; no grill cloth. 7 lbs sh. #ER-SPK-ENC, 2/$3.00

3 X 5 SPEAKER, 2 watts with 1⅝" dia magnet. Specify 8 or 16 ohms; 1 lb. $1.35 $95/100

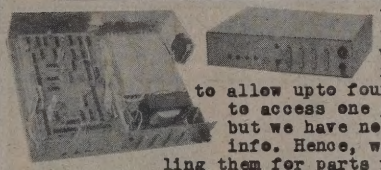
* * * * * * * * * * * * * * * * *

100 - 500 LOT PRICING available on all above.

TELE COSTER I

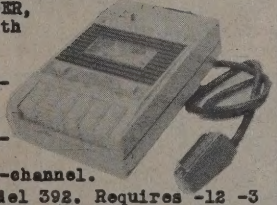
TELE COSTER I TELEPHONE METER, cost-effective device for the individual or business who wants to keep "tabs" on the length and costs of long-distance and, perhaps soon, local telephone calls. Initial and secondary rates/period are programmable using the numeric plus 6-function keyboard. LED display shows cost/period plus elapsed time hr-min-sec. Also display flashes 15 sec before rate change and has X60 speed-up time so maximum acceptable charges could be determined before the call. In sturdy, handsome beige plastic case. Requires 115 VAC 60 Hz; 2 lbs. NEW w/info $10.

WHAT-CHA-MA-CALL-IT



We were told these were originally used to allow upto four computers to access one peripheral, but we have no further info. Hence, we are selling them for parts which are RS232-type connectors 4 ea DB25S and 1/DB25P, Triad 26.8 VCT 1.7 amp transformer, 4½x5x1¼ heatsink, two circuit cards, 8' 3-cond line cord, and 3x12x10⅛ enclosure. PC cards have 4/7400, 7401, 3/7404, 5/7420, 7430, 7473, 7476, 7493, 5/7490, 4/7495, 3/74121, 74153, 74156, 74,64, 2/75189, 555, MC1469R, MC1463R, 2N3055, MJ3101; also selectable crystals 8800/2400 Khz and baud rates 300/110. 12 lbs sh. #340-400, used, $12.95

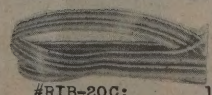
DATA CASSETTE



DATA CASSETTE RECORDER, adaptable for use with most microcomputers having RS-232 input. Functions: Eject, Record, Rewind, Ready, Forward, Stop, Read-from-Tape, and Write-on-Tape. Tape speed 1-7/8 ips, 4-track 2-channel. Similar to Monroe Model 392. Requires -12 -3 +5 V. Includes 3' cable w/DB-25P plug & book. 8x5x3, 4 lbs sh. #DC-REC, unused, $29.95

'0' GAUGE CABLE

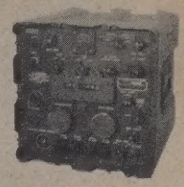
2-CONDUCTOR "0" GAUGE COPPER CABLE in PVC jacket. Use ror making welder cables, jumper cables, or wind generator hook-up. Each cable 2-conductor at length indicated. #8369-25 25' $25. #8369-50 50' $42. #8369-100 100' $69.50 (Weight 1 lb/foot.)



RIBBON CABLE for computer wiring or similar jobs; 20-conductor #22 stranded wire with ten color codes.

#RIB-20C:	10'	100'	500'	1000'
Price per foot:	$.85	$.60	$.48	$.35

0.5-32 MHZ RECEIVER



R-392/URR RECEIVER, 0.5 to 32 Mhz AM-CW in 32 one Mhz bands using mechanical digital tuning. Triple conversion on lower 8 bands, double on others. Selective bandwidth 2-4-8 Khz; 100 Khz crystal calibrator points. With 25 tubes of 26A7, 26A6, 26C6, 26D6, 6AJ5, 12AU7. Requires 24-28 VDC 5 amps. Rugged vehicular version of the famous R-390 receiver. 11½x14¼x11; 58 lb sh wt. Used-reparable, $135. Checked, $200.

MANUAL for R-392, partial repro, $15.00
LS-166 SPEAKER for R-392, used, $12. w/set.
115 VAC POWER SUPPLY f/R392-no connector $25.

2-12 MHZ USB 100 WATTS

AN/PRC-47 RADIO SET with RT-671 transceiver as the major component covering 2 to 11.999 Mhz USB (voice and CW+800 Hz) in 1 Khz steps. power output 100 watts PEP (Hi) or 20 W PEP (Lo). FSK mode possible if used with suitable converter (not available). Collins manufactured set is transistorized except for PL-177WA tube in power amp and tubes 5907, 7761, and 7905. Has 5-place mechanical digital tuning, P-A lead and tune controls, and XMTR output meter. Designed for field or vehicular use, RT671 operates from either 24 VDC 20 amps or 115 V 400 Hz. 7x21½x13½, 45 lb sh. Used-reparable, $300. W/H-33 handset, AS-1320 antenna, $320. MANUAL repro $17 w/purch.

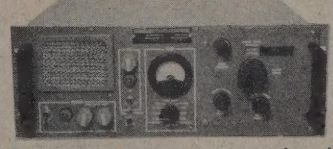
* *

PRC-47 ACCESSORY PACK: AS-1321 15' whip antenna, LS-166 speaker, H-233 headset, J-45 key/leg-iron, CX-8396 cable, U-239 adapter, backpack harness & frame, and aluminum transit case; 95 lbs sh. $55 w/RT-671 purchase.

URC-68 DISTRESS RADIO

AN/URC-68 DISTRESS TRANSCEIVER, handheld unit designed as an emergency radio for aircraft pilots; operates over 38-42 Mhz FM and 230-250 Mhz using 4 preset channels, voice, MCW, and beacon. All have 40.5 Mhz FM and 243 Mhz UHF channels; other three frequencies depend on selected crystals (not available), 50 Khz spacing. Power output 500 MW (FM), 200 MW (UHF); range 10 miles line of site or 3-5 miles over varied terrain. Includes squelch, built-in microphone, speaker, and antenna. Requires 11-16 VDC originally supplies by BA-1112 battery (not available). 6x3⅝x1¾, 3 lbs sh. Used-reparable with receiver and transmitter output, $79.50
AS-IS, no output but good modules, $59.50
MANUAL, partial reproduction, $10.00

LINEAR AMPLIFIER



AM-6155/GRT-22 LINEAR POWER AMPLIFIER (ITT Model 3212), designed for 50 watt output from 10 W exciter input over 225-400 Mhz. Uses Eimac X651Z tetrode in silver-plated cavity housed in removable drawer; 175-turn counter dial for tuning. Cavity has added feature VHF/UHF switch facilitating conversion AM-6155 to 116-150 Mhz VHF range with some circuit changes. Main chassis contains solid-state power supply and buffer amp/multiplier; test meter on panel monitors voltages. Requires 105/120/210/240 VAC 50-400 Hz and +20 V reg 60 ma, +20 V keyed. 7x19x18⅛, 80 lbs sh in two packages. Schematic packet included. Used-excellent, not tested, $149.50

BC & ARC COMMAND SETS

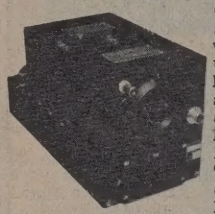
Even though they have been on the surplus market since the end of World War II, the Command Set Receivers and Transmitters are still popular with hams and experimenters.

The series consists of either SCR-274N (BC-prefix) or AN/ARC-5 receivers (R-prefix) and transmitters (T-prefix).

As a group, the receivers cover 190 Khz to 9.1 Mhz and the transmitters 2.1 to 9.1 Mhz.

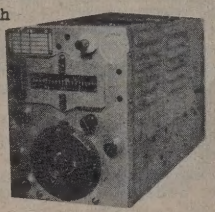
Over the years many conversions have been written for the sets. However, the last comprehensive collection of such information, CQ Surplus Conversion Handbook, went out-of-print in 1979.

If you are interested but not familiar with the Command Sets, your best source for info about them may be another ham. Schematics for any of the receivers and transmitters are available from us @ $1.50 each plus a SASE.



Command receivers are superheterodyne types which may be tuned by the use of a special spin knob or from a remote position with a control box and spline shaft. Each have six tubes: 3/12SK7, 12SR7, 12A6, and 12K8. They are designed to operate from a DM-32, a 24 V-DC dynamotor with an output of 250 VDC 60 MA and 24 volts. Shipped less dynamotor. Size: 5x5x11, 15 lbs sh.

WRITE for current availability



Command transmitters with proper use can put out 50 watts CW and 30 watts phone. Modulation is obtained from either of two separate units, BC-456 for single tube modulation or MD-7 for push-pull. The 575-600 VDC 175-200 MA and 24 volt power requirements were originally satisfied by the 24 VDC DM-33 dynamotor which mounted on either modulator. The transmitters use a 1629 "eye" tube for tuning and crystal calibration plus tubes 2/1625 and 1626. Size: 5x7x12, 17 lbs. sh.

BC-457/T-20, 4-5.3 Mhz, reconditioned $19.95
BC-458/T-21, 5.3-7 Mhz, $19.95
BC-459/T-22, 7-9.1 Mhz, $25.; w/o dial, $21.

BC-456 MODULATOR for use with Command Transmitters; single tube modulation with tubes 1625, 12J5, 0D3. Has provision for mounting DM-33 dynamotor. 7x8x10, 11 lbs. sh. Used $12.95

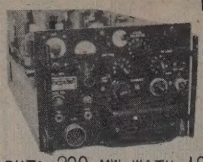
PUSH-ON TUNING KNOB f/Command Receivers, $3.
MC-215 SPLINE for remote tuning, 6 ft, $1.50
DM-32 DYNAMOTOR, 25 VDC f/receivers, $4.95
AC POWER SUPPLY f/Command Receivers; w/speaker, our construction. Kit, $32. Wired, $40.
FT-233/MT-7 single receiver rack, $3.00
FT-234/MT-39 single transmitter rack, $3.25
FT-227/MT-70 SHOCKMOUNT f/FT-226 rack, $2.50
C-48 TUNING CONTROL, panel style for ARC receivers 190-550 Khz; MC-215 required, $8.
C-1245 CONTROL, like C-48 but 108-135 Mhz $9.
C-37 DUAL CONTROL, 190-550 Khz and 118-148 Mhz dials for R-11/R-19 pair; unused $8.95
BC-496 DUAL CONTROL, 3-6 and 6-9 Mhz dials for BC-454/BC-455 pair; unused, $7.95
BC-450 TRIPLE CONTROL, 190-550 Khz, 3-6, and 6-9 Mhz dials for BC-453-454-455; unused $8.

R-19/ARC AIRCRAFT RECEIVER, 118 to 148 Mhz continuously tuneable. No dial; designed for remote tuning with spline shaft. IF-15 Mhz. With tubes 9002, 3/9003, 14A7, 2/14R7, 14F7, and 12A6. Uses accessories similar to ARC-5 Series. Requires 250 VDC 60 ma and 24 VDC. 6⅝x5x11⅝; 13 lbs. sh. Used, $18.95

R-11A RECEIVER, 190-550 Khz. Similar to R-19 but has 85 Khz IF and tubes 2/14A7, 14S7, 14R7, 14F7, and 12A6. Used, $12.95

R-22 BROADCAST BAND RECEIVER, 550-1500 Khz. Similar to R-11. Used, $24.95

ARC-39 RECEIVER-XMITTER

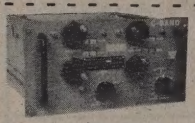


RT-427/ARC-39 RECEIVER-TRANSMITTER, REPLACES COMMAND SETS; COVERS 2.0 TO 9.1 MHZ IN TWO BANDS; SIX CRYSTAL-CONTROLLED FREQUENCIES PER BAND. RF OUTPUT: 10 WATTS MIN. INTO 10 OHM LOAD (100 PF). 100% AMPLITUDE MODULATION; AUDIO OUTPUT: 200 MW WITH 1000 UV 30% MODULATED INPUT; 800 MW MAX. BANDWIDTH: 8 KHZ @ 6 DB DOWN. METER INDICATES RELATIVE RF OUTPUT TO THE ANTENNA. WITH TUBES 0B2, 2/12AT7, 4/5749, 5750, 3/5686, 4/5814, & 3/6159. POWER REQUIRED: 28 VDC 4.4 AMPS WHEN RECEIVING; 8.5 AMPS TRANSMITTING. SIZE: 7¾x10¼x21¼; SHPG. WT: 42 LBS. PRICE: USED, COMPLETE, $49.50 MANUAL FOR RT-427/ARC-39, REPRODUCTION, $10.

225-400 MHZ CONVERTER

AM-914/TRC AMPLIFIER-CONVERTER, originally used with military R-417 receias plug-in for the 225-400 Mhz range. Continuous tuning of RF and oscillator; 30 Mhz I.F. Unit has conversion possibilities as discussed in R. Grove's article in 10/80 issue of CQ magazine. With tubes 5670 and 4/6J4. 7⅜x6⅛x9⅛, 17 lbs sh. Used, $34.95

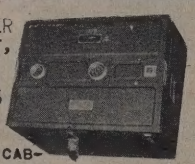
AM-1179/GRC, 50 to 100 Mhz, $39.50
AM-913/GRC, 100 to 225 Mhz, $39.95
AM-1177/GRC, 400 to 600 Mhz, $44.50
AM-3203A/GRC, 1.35 to 1.875 Ghz, $49.50



AM-915/GRC AMPLIFIER-MULTIPLIER, used in T-302 transmitter for 225-400 Mhz FM range. 120 watts output from two 4X150's. 12x6x14, 45 lbs. Used $55.

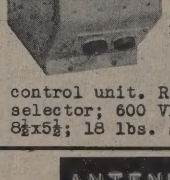
AM-1180/GRC, 50-100 Mhz, one 4X150A, $49.50
AM-1178/GRC, 400-600 Mhz; has one 4X150A and one 4X150G as power amp tubes; used, $75.00

CV-1275/ARN (ARC B-18) DATA CONVERTER, solid-state unit processes VOR or localizer navigation signals; 28 VDC, 6x2½x6. Used, $30.



SCR-522 RECEIVER-TRANSMITTER AM CRYSTAL CONTROL, 30 WATT, 4 CHANNEL ON ANY FREQ. IN THE 100-156 MC RANGE. TUBES TRANS. 2/832, 6SS7, 3/12A6, 6G6 REC. 1/9002, 9003, 12C6, 12H6, 3/12SG7, 12A6 & 2/12AH7. UNITS CAN BE RE-MOVED FROM CABINET CASE SEPARATELY. REQUIRES POWER SUPPLY. SIZE: 16½x12½x10½; WT: 50 LBS. RE-COND $34.95 CONNECTOR PLUGS, $1.50 EA. OTHER ITEMS AVAILAB.

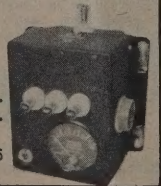
R-77/ARC-3 VHF RECEIVER A.M. 100-156 MC, CRYSTAL CONTROL ON 8 PRE-SET CHAN. WITH TUBES 6/6AK5, 3/12SG7, 2/12SN7, 1 EA. 9001, 9002, 12A6, 12H6, 12SL7 & 12SH7. VOLTAGE REQ. 24 VDC & 210 VDC @ 210 MA. SIZE: 11x7x15; WT: 21 LBS. USED $24.50 R-5009/ARC-502 SIMILAR TO ARC-3 EXCEPT MADE FOR CANADA. (WE WILL SHIP WHAT IS AVAILABLE)



T-23/ARC-5 TRANSMITTER, companion to the R-28, has 10 watt output, though can be modified for higher rating. Uses two 832 and two 1625 tubes. Audio power for modulating originally supplied by MD-7 modulator

Frequency channel selection made by separate C-30 control unit. Requires 24 VDC for relays and selector; 600 VDC 175 MA for HV. Size: 15½x8½x5⅛; 18 lbs. sh. Gov't. reconditioned $25.

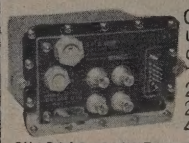
ANTENNA RELAY



ANTENNA RELAY UNIT for Command Sets; switches antenna from transmitter to receiver. With 2½"rd 0-10 antenna current meter and 5KV 50 pf vacuum capacitor. 4x3½x5, 6 lbs sh. Unused. #RE-2/ARC, black finish, $14.95 #BC-442A, aluminum, $15.95

R-101/ARN-6 RADIO COMPASS RECEIVER, 100-1750 KC IN FOUR BANDS WITH TUBES 6/12SK7, 4/12SX7, 2/26A7, 2/2050, 1/12SY7 & 1/12SX7. POWER REQUIRED 24-28 VDC. SIZE: 11⅛x7½x15½; 40 LBS Used, $45.00 Gov't reconditioned $65.

AS-313/ARN-6 LOOP ANTENNA	USED	$15.00
ID-91/ARN-6 INDICATOR 3"	NEW	$12.95
PD-5/ARA-19 TUNING DRIVE	USED	9.95
AM-2038/ARA-19 AMPLIFIER	NEW	8.95
C-149/ARN-6 CONTROL PANEL,	USED,	$9.95
MC-124 FLEX. TUNING SHAFT 20 IN.	USED	1.50
MC-203 "T" ADAPTER	USED	1.50
MC-136 RIGHT ANGLE ADAPTER	USED	2.00

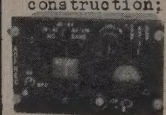


CU-308B/U ANTENNA COUPLER; USES CATHODE FOLLOWER TO COUPLE SINGLE ANTENNA WITH THREE RECEIVERS IN THE 2 TO 24 MHZ RANGE. INCLUDES THREE 24 VDC 500 OHM SPST RELAYS, 4/5906 TUBES, AND FOUR BNC CHASSIS CONNECTORS. POWER REQUIRED: 24 VDC 180 MA. 5x5⅛x3¾; WT: 4 LBS. UNUSED, $9.95

AT-382 LOOP ANTENNA for receivers in the 190-1500 Khz range such R-23/ARC-5, R-11, and R-836/ARN-59. 9" dia loop is turned manually by use of MC-215 spline and spin knob. Has BNC connection for RF. 14x9x4, 10 lbs sh wt. AT-382/L-10, Used, $10.95

R-836/ARN-59 DIRECTION FINDER RECEIVER, same as Aircraft Radio Corp R-30A DF receiver used in light aircraft. Covers 190-1750 Khz in bands 190-400, 400-840, and 840-1750 Khz; replaces AN/ARN-6 radio compass system. Can be tuned using push-on knob or remotely using C-2275 control box and MC-215 spline listed separately below, IF 142.5 Khz; tubes 2/5718, 5896, 5/5899, 3/5902, 2/6021, 6112. Requires 24 VDC 1 amp, 110 VDC 90 ma, 125 VDC 20 ma; also 13 V 100 Hz for loop selsyns if used for DF. Voltages originally supplied by DY-107 dynamotor (not available). 4½x4½x10¼, 9 lbs sh. Used, $24.95

OPERATOR'S MANUAL, $3. SCHEMATIC, $2 w/set.
MC-215 SPLINE, 6', $1.50; Spin Knob, $2.00
ID-637/ARN 3" dia COMPASS INDICATOR, $8 w/set
AC POWER SUPPLY w/speaker for R-836, our construction; 14 lbs sh wt, $45.00



C-2275/ARN-59 CONTROL BOX for tuning R-836 in three bands; also Tune-to-Max meter, volume control, BFO, and Loop switches. Requires 28 VDC; 3¾x5¾x2¼, 2 lbs. Used $12.

R-1250 VHF RECEIVER

R-1250/GR VHF RECEIVER, transistorized single channel crystal-controlled in the 118 to 148 Mhz AM range. Two stages RF and mixer shielded; 17 Mhz crystal IF filter. Uses CR-98-style crystal (not included). Controls for on-off/audio gain, RF gain, squelch, 600 ohm phone jack. Requires 115/230 VAC 50-60 Hz; Wilcox mfg. 1¾x19x8, 12 lbs sh. Unused with manual, $65.

PRT-4 XMITTER

AN/PRT-4 MINIATURE TRANSMITTER, designed to operate on two preset channels between 47 and 57 Mhz. Output 450 mw (Ch 1), 50-250 mw (Ch 2); also 150 Hz tone. Has built-in speaker and clips onto belt or pocket. Requires 12 VDC originally supplied by BA-399 battery (not available). Units sold "as-is" less antenna crystals, battery box. 2x4½x2, 2 lbs. $16.95

PAGING HORN

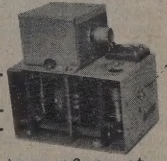
OUTDOOR PAGING HORN with sealed voice coil and 5" dia aluminum horn. Rated 15 watts 8 ohms. Includes mounting bracket. O/a 4¼" deep, 4 lbs sh. #BZL-0518, NEW, $9.95

EMERGENCY FLASHER

EMERGENCY LIGHT-FLASHER-CHARGER, plugs into car lighter with 14 feet of cable and provides bright clear flasher for emergencies or continuous lighting for repairs, map reading, etc. Also has provision for trickle charging battery from another vehicle using an additional 3 ft cable connected to its lighter circuit. Has meter which indicates approximate charge time required. 6x4x3, 4 lbs sh. #EMERG-LFC, w/cables, NEW, $5.00
LIGHTER CABLE, 14' as above, $2.50; 30" $1.

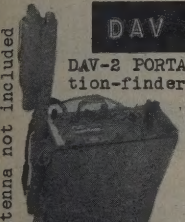
SWR INDICATOR CIRCUIT

STANDING-WAVE RATIO INDICATOR CIRCUIT, assemble a SWR meter using this 1½" square 0-10 scale (FS=2 MA) meter with filters and rectifiers and a modified Schering bridge. One pair of bridge arms is resistive, the other capacitive. In theory the bridge circuit is balanced when the antenna is tuned to 52 ohms resistive resulting in a zero reading on the meter. SO-239 connector. Bridge: 2½x2½x1; 2 lbs. #M701/CU-991, $8.95



PHASE AND LOAD DISCRIMINATOR, could be useful in tuning an antennas system, if used in circuit with a sensitive zero-center microammeter. Phasing and loading discriminator produces ±DC voltages proportional to the reactance of a system. Phasing output shows the type of reactance (capacitive or inductive) and the loading's indicates the amplitude of impedance referenced to 52 ohms resistive. In both cases zero DC output is ideal (may not be obtained in practical circuit). A third output is proportional to relative antenna current. 2x3x3; 2 lbs. sh #T201/CU-991 w/diag., $4.95

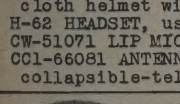
DAV WALKIE-TALKIE



antenna not included

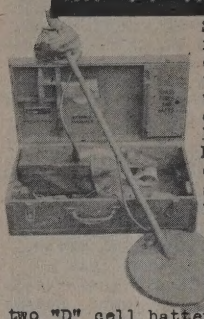
DAV-2 PORTABLE TRANSCEIVER with direction-finder circuit; operates on single channel between 2.3 and 4.5 Mhz @ 200 MW. Has controls for receive, transmit, and sense. Also water-tight O.D. plywood case, JK-26 phone jack, connection for T-45 mic, FT-243 crystal (no frequency choice), book, and tubes 3/3S4, 2/1T4, 1R5, and 1S5. Requires 67.5 VDC 3 ma, 135 VDC 19 ma, 6 VDC 30 ma, and 1.5 VDC 225 ma. Size: 10¾x 3½x10, 8 lbs sh wt. Used, $10.95
We will try to ship matched frequency pairs when two or more DAV's are ordered.

ACCESSORIES which can be used with DAV-2:
T-45 LIP MIC or T-30 THROAT MIC, used, $4.00
CC1-49559 HEADSET ASSEMBLY consisting of cloth helmet with headphones, unused, $4.95
H-62 HEADSET, used, $4.95
CW-51071 LIP MIC, used w/H-62; unused, $3.00
CC1-66081 ANTENNA, seven section 15"-85" collapsible-telescoping, $1.50 w/DAV purch.



MAB PORTABLE TRANSCEIVER CHASSIS, originally designed to operate between 2.3 and 4.5 Mhz on a single channel; 200 MW output. In waterproof black plastic case; mic and headset cut-off and not available. W/tubes 3/3S4, 2/1T4, 1R5 and 1S5. Requires 67.5 VDC 3 ma, 135 VDC 19 ma, 1.5 VDC 225 ma, 6 VDC 30 ma. Size: 8⅜x 2¾x7½; 8 lbs. sh. Used, with book, $6.95

WW-II MINE DETECTOR



SCR-625 MINE DETECTOR SET, famous World War II unit designed to detect anti-tank mines buried at depth upto 24". Detection indicated on meter attached to handle or audibly by the M-356 resonator. Set includes C-446 13" dia x 1" search coil, BC-1140 control, BC-1141 amplifier, M-350 handle, M-356 resonator, BG-151 bag, CH-156 transit chest, and manual. With tubes 2/1N5 and 1G6. Requires two "D" cell batteries and BA-38 battery (not available) which supplied 103 and 67 VDC. Units are in good physical condition, but because of their age we do not guarantee their operation. 49 lbs sh wt. Used, ~~$79.80~~ $59.50

2-30 MHZ POWER AMP

POWER AMP/MODULATOR DECK from T631/GRC, a 2-30 Mhz transmitter 400 watts peak AM at 100% modulation or 100 W nominal AM-CW. Uses a 4X250 in P-A, two 4X250's in modulator; RF input 4 Vrms Has 4-position switch bands 2-3, 3-6, 6-10, 10-30 Mhz and three 0.43-18 uH variable ribbon inductors all driven by 26 VDC motor. Other components 3-Eimac sockets and chimneys for 4X-250's, 12-Centralab 850 4 KV capacitors, and blower. Requires 26 VAC, +26 +250 +1100 -105 VDC. 6¾x15⅝x13¾, 34 lbs. W/schematic, ~~$115~~ $90.

MIRRORED REFLECTOR

INFRARED NIGHT VISION REFLECTOR originally used on tanks. 23"x16" mirrored surface focuses light about 12" above center. Heat created can "smoke" wood on sunny day. 4⅛" fall from extreme perimeters to center. Surface may have scratches. Nice experimenter's item. 12 lbs, used, $25.

SCOPE FOUNDATION

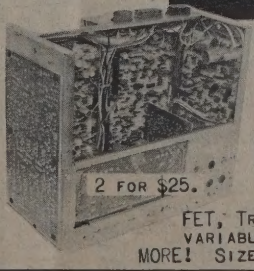
OSCILLOSCOPE FOUNDATION with 2AP1 2" dia CRT, shield, and socket plus four variable resistor controls on front panel and fixed resistor board behind panel. Does not have power supply; schematic not available. 7¼x3x8⅝, 4 lbs sh. #10WG/205892, unused, $19.95

PHANTOM ANTENNA

GP PHANTOM ANTENNA as used with WW-II 350-9050 Khz aircraft transmitters to monitor RF at remote point. Has 3½" rd 0-10 RF ammeter, 10 KV 0.0002 and 0.0003 mf G2 mica xmitting capacitors, 12-nickel-plated terminal posts in 14x12x9¾ aluminum case w/hinged top; 22 lbs. Unused ~~$36~~ $28.

CARTRIVISION COMPONENTS

FISH TANK



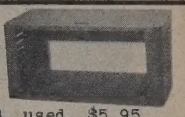
FISHTANK OF ELECTRONIC COMPONENTS, P/O VIDEO TAPE SYSTEM. CONSISTS OF DEMODULATOR, SERVO-AMP, DROPOUT COMPENSATOR, PER/POST PROCESSOR DC POWER SUPPLY (115 V 60 HZ; OUTPUT -12/-12 1AMP REG, 5 VDC 1 AMP UNREG. MANY PARTS, IC'S FET, TRANSISTORS, TRANSFORMER VARIABLE RESISTORS, CAPACITOR MORE! SIZE 14x12x6½ WT 15 $14.95

2 FOR $25.

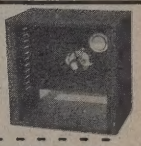
DUAL FOOT SWITCH

TWO PEDAL FOOT SWITCH, each normally open 115 V 10 amp contacts. Switches are mechanically interlocked so that only one can be actuated at a time; interlock lever can be easily removed for independent operation of switches. Includes 15' 14/3 heavy rubber cable. 10x8½x2½, 8 lbs. #2PED-FS unused $9.95

ENCLOSURES



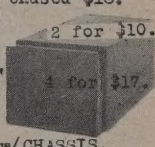
STEEL CABINET with lift top for 7"Hx14"Wx8"D panel. O/a 8x16½x8½, 7 lbs. #SK-CAB7148, used, $5.95
PANEL with miscellaneous parts f/above, $1.50



CY-2126/TRC EQUIPMENT CABINET with 115 VAC 60 Hz 5" cooling fan mounted on rear; black crackle finish. Panel space 19¼"Hx19"Wx14½"D; o/a 21½x22½ x14¼, 30 lbs sh. Unused, $19.95

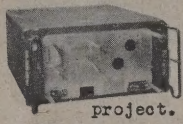
CY-1693/TRC CABINET, panel space 14"Hx19"W x13¾"D; o/a 16½x22x14, 35 lbs. Unused $18.

PYE/CAB CABINET, 16x19x14 space o/a 17½x21x14 blue, used $13.



2 for $10.
1 for $17.

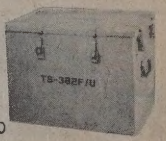
FILE CABINET for items upto 9¾" wide X 8½"H; o/a depth 24". Steel, O.D. green; 14 lbs. $6.



CS-618S1 CASE w/CHASSIS, 15⅛"Wx8"Hx23½"D (20"D behind panel). Some cut-outs on front; may be usable for antenna tuner or transmatch project. Aluminum; 20 lbs. Used $12.

CS-1060 CASE w/CHASSIS, p/o small scope; o/a 8"Wx7½"Hx13"D. Front has cut-out for 3"CRT; some parts on chassis. Handle on top; 10 lbs. Used, $8.95

TRANSIT CASES



TS-382 TRANSIT CASE, o/a 15x 19x15½; usable space without removal of spacers 10x18⅝x12⅝ Not hinged; hasp fastners. Aluminum; 35 lbs. Used, $14.00

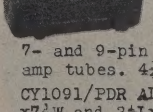
CY-1338 TRANSIT CASE, 20½"Wx18¼"H x17"D; aluminum w/side grips and hasp fastners, 40 lbs. $16.00
CY-1342 CASE, as above but 21⅛"Wx 18⅛"Hx20½"D; 43 lbs. $17.50

CS-15X18 CASE, o/a 23½Wx18⅝Hx17¼ Usable interior 19x15¾x14 plus 4"H cover. Aluminum with side handles and hasp fastners. 46 lbs sh, used, $16.00

CY-56/TX WOOD CHEST, hinged top w/hasp fastners; 20x13-3/8x12-5/8 with removable internal partitions; handle. 18 lbs, used $12.00

CY693/PDR-27 ALUMINUM CASE, four compartments: 3¾x4, 7¾x4, 1¾x4, and 13x6⅜; may be removed for 13x10⅜ size 9" deep. Hasp fastners; may need repainting. 12 lbs. Used, $6.00

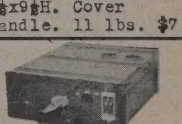
CY-3157/USM-144 TRANSIT CASE, three ply wood and aluminum construction w/hasp fastners; 19¼x13¼x13¾, 32 lbs. Used $12.



CY-1451 SPARE TUBES CASE w/hasp fastners. Removable insert has space for 7- and 9-pin mini tubes and two 4X/4CX power amp tubes. 4½x10x3⅜, 4 lbs sh. Used, $3.50

CY1091/PDR ALUMINUM CASE, compartments 11⅜L x7½W and 2⅜Lx7½W; o/a 14½x7⅞x9⅜H. Cover hinged w/fastners and top handle. 11 lbs. $7.

MOTOROLA MOBILE RADIO CASES, olive-drab "80-D" style; 15½Wx6Hx17¾D, 34 lbs sh wt. W/key; used, $14. Specify: #CS-XT/MRC xmitter case with 18-pin connector or #CS-REC/MRC case with 28-pin connector.



ALUMINUM CHASSIS, used:
#CH-6B23, 12½x9¾x3, $2.50
#CH-6B17, 17x13x4 4 lbs $5.

TAKE 40% OFF
WAVE GUIDE PRICES

U.H.F. RECEIVER

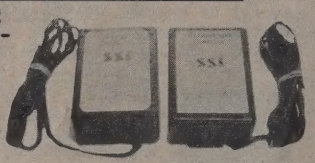
R-48/TRC-8 RECEIVER F.M. 230 TO 250 MC. ONE BAND VARIABLE TUNING, VOLTAGE REQUIRED 115/230 60 CYC WITH SPEAKER, PHONE JACK, SQUELCH CIRCUIT 2½" METER FOR CIRCUIT CHECKING. WITH TUBES 8/6AG7, 1/9002, 1/5U4, 1/6V6, 1/VR-150, 1/6N7, 1/6SN7, 1/6AL7. SIZE: 20x19x16; WT: 75 LBS. USED $45.00

CV-89 FS CONVERTER

CV-89/URA-8 FREQUENCY SHIFT CONVERTER, audio frequency conversion type with 2BP1 CRT. Shifts 10-200 Hz @ 1 Khz center frequency; 200-1000 Hz @ 2550 c-f. Maximum keying speed: 60 wpm for single channel. Teletype output 60 ma DC loop @ 70 V. Two AF inputs, one for narrow one for wide shift; each 600 ohms ct, 60 uW to 60 mW input power. Requires 115 VAC 60 Hz. 5¼x17x21, 55 lbs sh wt. Used-reparable, $85. Flanges for rackmount use, $5 additional. Manual, partial repro, $10. Power conn., $3.

CV-116/URR FSK CONVERTER for use with receivers having final IF's from 450 to 510 Khz such as R-220, R-388, R-390A and SP-600. Converts frequency-shift signals into DC pulse that key the energizing circuits of teleprinters; translates at 100 dot Hz/sec. Unit can be used with two receivers. Channel A IF center frequency 50 Khz; channel B, 29.3 Khz. Input FS range 150-1000 Hz, 100 uv minimum; 50 ohm impedance. Separate control unit required between CV-116 and teleprinter to match output-input signals. Requires 115 VAC 60 Hz. 8¾x17x18; 80 lbs sh. Used, reparable, $100. Manual, partial, $10.

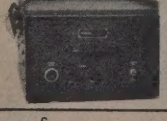
REMOTE SIGNALLER



REMOTE SIGNALLER RECEIVER & TRANSMITTER, intended use was for the transmitter to be actuated by a telephone bell The transmitter would then signal the receiver via the power line and activate the receiver's outlet to which a lamp or other appliance could be connected. Maximum outlet load 200 watts. Transmitter has telephone pick-up coil, op-amp, and tone oscillator. Receiver has 567 tone decoder circuit and triac control circuit for the outlet. Each has On-Off switch, 5' cord, and measures 3x4x1½; 3 lbs sh. Schematic included, may need minor repair. RMS-R/T, $8.95

PRD-1 DIRECTION FINDER

R-395/PRD-1 RADIO DIRECTION FINDER 100 Khz to 30 Mhz AM-CW-ICW in seven bands; FM over 12.5-30 Mhz. 34 Khz bandwidth. 100 Khz crystal calibrator for bands 1-2-3 (100-1200 Khz), 1300 Khz bands 4-5 (1.14-5.8 Mhz), and 4000 Khz bands 6-7 (5.5-30 Mhz). Has two tuned RF amplifiers using two 6AK5's. Also 7/1U4, 1R5, 2/1U5, 6C4, 3Q4, and 3A5. Designed to be used with diamond shaped AS-536 and AT-301 antenna which mounts on receiver's top. Requires 1.5, 6.3, -6, and 90 VDC. 18½x13x13½; 64 lbs net, 75 lbs sh wt. Used, reparable, $105.00 MANUAL, partial repro, $12. Schematic only $3



DY-79/PRD-1 DYNAMOTOR POWER-SUPPLY, fits and plugs into bottom of R-395 and provides all the voltages for the receiver from 24 VDC 7 amp input 10x14x17, 38 lbs sh. Used, $35 Power input connector $3 w/set

FACSIMILE TRANSCEIVER

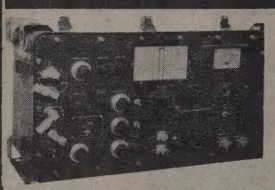
STEWART-WARNER MODEL 180 DATAFAX TRANSCEIVER, facsimile machine designed to send and receive printed matter and images over telephone lines or private wire. Produces upto six shades of gray. Drum scanner speed: 180 RPM; 6 minute transmission time for 8½x11 message. Receives 1500-2500 Hz signal; 2150 Hz required to activate demodulator. Select manual or automatic operation modes. Uses 200' rolls of facsimile paper (not available). Units tested for basic send-receive; some adjustments may be necessary. Schematic & info packet included. Requires 100-127 VAC 60 Hz. 16x12x21, 70 lbs Used, ~~$175~~ $125.

WW-II VEHICULAR RADIO

BC-620 TRANSCEIVER, part of SCR-509-510 radio set as used in World War II vehicular communications. Receives and transmits over 20-27.9 Mhz FM range on any two of 80 different crystal channels spaced 100 Khz apart. Transmitter output: 1.2 watts. Has tuning meter and tubes 1LC6, 1LH4, 4/1LN5 2/1291, 1294, 4/1299. Uses FT-241 crystal-type (not included) and requires 1.5 VDC 0.7 amp, 90 VDC 45 ma, 7.5 VDC 0.3 A, 150 VDC 45 ma. Size: 12x16½x21½, 40 lbs. Used, $59.50

CS-79 BATTERY BOX for manpack use of BC-620 or BC-659; 17 lbs sh. Used, $6. Unused, $10.
SCR-509/510 MANUAL, $7.50
SCR-609/610 (BC-659) MANUAL, $7.50
TS-13 HANDSET, $10.00 with purchase of set.

4.4 - 5.0 GHZ TRANSCEIVER



RT-252/TRC-27 MICROWAVE TRANSCEIVER, 4400-5000 Mhz pulse-position modulated, continuously tunable. Converts video channel pulses into RF for transmission and receives RF and converts it back into video pulse. Receiver IF: 60 Mhz; 10 Mhz bandwidth. Noise figure: 13 db. Has AGC and AFC. Transmitter uses video amplification and plate modulation of planar triode type RF oscillator. With tubes 2K22 klystron, 6280 planar triode, 13/5654, 5670, 5726, 5727, 5814, 2/12AT7, 2/6X4, 6AU6, 3/0A2, 5933, and 3/6AQ5. Power required: 115 VAC 400 Hz. Size: 14½x25½x11½, 75 lbs. sh. Used, ~~$150~~ $85.00 Schematic, $5.00

RT-5010 TRANSCEIVER

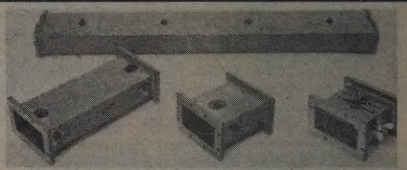
RT-5010/PRC-510 CANADIAN PORTABLE TRANSCEIVER, Canadian version of U.S. RT-176A/PRC-10A transceiver. Covers 38-54.9 Mhz FM continuously tunable. Receiver IF 4.3 Mhz; audio output 600 ohms. Transmitter power output 900 MW with normal range of about five miles. Microphone input 150 ohms. Controls for volume, tuning, squelch, pointer adjust, and dial lock. Can be used with either U.S. or Canadian versions of H-33/PT handset. With tubes 9/5678, 1AD4, 2/5672, 3/5676, 5A6. Requires 135 VDC, 67 V, and 1.5 VDC. (BA-279 battery see page 18.) Units shipped less 4300 Khz calibrator crystal which is not essential for operation. 9½x3x10½, 9 lbs; used-not checked, $20.95

RT-5009/PRC-509 CANADIAN TRANSCEIVER, same as RT-510 except 27 to 38.9 Mhz FM; similar to U.S. RT-175A/PRC-9A. Used, $22.95

* * * * * * * * * * * *

AT-5001/PRC WHIP ANTENNA, 11"-47"L, $3.00 ea
CY-5007/PRC BATTERY BOX, $3 w/set purchase.
H-33/PT (U.S.) HANDSET, $10.00
MANUAL for PRC-9A,-10A (U.S.), $7.50

3.7-4.17 GHZ WAVEGUIDE



COPPER WAVEGUIDE, 2"x1" size for the 3710 to 4170 Mhz range; Western Electric manufacture, removed from telephone installations. Filters are tuned to preset frequency; adjusting screws can be reset to desired frequency. No further information available.

#1301-Series FILTER with four adjusting screws; 18¾" length, $24.95
#1303-Series FILTER, two top and two side adjust screws; 6-11/32"L, $17.95
#1300-Series FILTER, one top and one side adjust screw; 3-5/32"L, $12.95
#400-Series TUNER, two ¼" dia adjust screws; 2⅝" long, $14.95

#ED51566-30 TUNER/TRANSDUCER, two ¼" dia adjust screws, one 3/8" dia screw port; 2-7/8" long, $16.95

#J368330K1 XMTR AMPL, dual section 2-5/32" and 1⅝" variable internal port; o/a 4½"L, $19.95

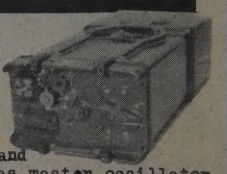
#ED63919-31 AMPLIFIER with 416B tube with 3/8" dia screw port adjacent to tube grid cap; assembly silver-plated brass. O/a 5⅝x3½x1-3/8, 4 lbs sh. $27.95 Mating 6-prong connector, $2.00

COLLINS RECEIVERS

R-389/URR VLF RECEIVER, Collins mfg, covers 15-1500 Khz AM-CW-MCW in two ranges, 7 bands. 455 Khz IF; selectivity 100 Hz-8 Khz in five steps. 4-place mechanical digital tuning and autotune; 39 tubes. Sold "less Line and Carrier Level meters". 115/230 VAC 50-60 Hz; 10½x19x17½, 90 lbs. Used-reparable, $250.00

R-388/51J3 COLLINS RECEIVER, 0.5-30.5 Mhz AM-CW in 30 bands, one Mhz/band. Wide 6" linear scale; 500 Khz IF. 5-step crystal selectivity 0.2-6 Khz; 100 Khz calibartion points Requires 115/230 VAC 50-60 Hz; 10½x19x13, 55 lbs sh. Used-reparable $265. Checked $330.00

CANADIAN TRANSCEIVERS



CRT-1/CPRC-26 CANADIAN PORTABLE TRANSCEIVER, six channel unit for use in the 47 to 55.4 FM Mhz range. Receiver consists of RF amp, xtal oscillator, mixer, 4/IF amps, limiter, discriminator, and audio amp. Transmitter has master oscillator, modulator, power amp w/3B4. Uses tubes 2/3B4, 5/1AD4, 5672, and 3/5678 all of which are in sealed plug-in modules except the 3B4's. Modules are reparable Receiver sensitivity about 2 uv, deviation 15 Khz. Transmitter output 300 MW. Receiver requires 1.5 V 550 ma 45 V 12 ma, 90 V 30 ma; transmitter 1.5 V 850 ma, 45 V 8 ma, and 90 V 30 ma. (Battery not available.) With battery box but less crystals. O/a 8x4¾x10½, 5 lbs sh. Used, $12.95

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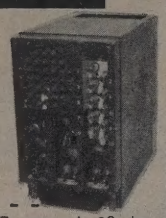
Accessories for CPRC-26: SCHEMATIC, $1.50
AT-5001/PRC ANTENNA, collapsible with flex base; 11"L folded, 47" extended. $3.00 ea.
CP-1/PRC COUNTERPOISE, rubber insulated 4 ft long wire w/split pin plug; use as counterpoise and/or trailing wire antenna. 2/$1.50
CAN-H33/PT HANDSET, like U.S. H-33/PT but with Canadian plug; $8.95 with set purchase.
H-5002/PRC HEADSET, one 300 ohm element, $4.
MODULE SPARES, unused; specify RF OSCILLATOR, IF AMP, MODULATOR, AF AMP --$1.50 ea, 10/$10

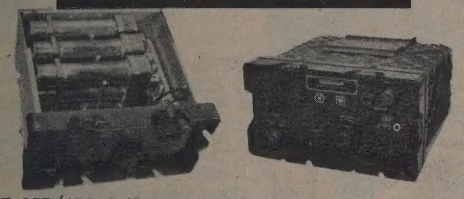
BC-683 FM RECEIVER



BC-683 FM RECEIVER, designed for 27 to 38.9 Mhz using ten push-button preset channels, or continuously tunable. Has built-in speaker; requires 220 VDC 80 ma, 12/24 VDC. Part of SCR-608-628 radio set. 11½x6¾x12½; 40 lbs sh. Used, less dynamotor, $54.95

BC-603 RECEIVER, same as BC-683 except 20 to 27.9 Mhz; p/o SCR-508-528 set, WRITE
BC-604 TRANSMITTER, companion to BC-603; 70 lbs sh. Unused, less dynamotor, $25.00
DM-35 12 VDC dynamotor for BC-604-684, WRITE
MANUAL for SCR-508-528, original, $7.50

BANDPASS FILTER

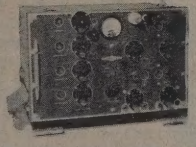


F-237/GRC BANDPASS FILTER, designed to operate from 54 to 70.9 Mhz using dial tuning. Bandwidth: 250 Khz @ 3 db points or 4.5 Mhz @ 40 db points. 50 ohm output and input impedance. Unit consists of a 3-gang variable capacitor coupled to 3 sets of three sealed cavities. Type C connections. F-237 has conversion possibilities for 6- and 2-meter amateur apllications. An article about these by W. Tucker, W4FXE, appeared in 12/80 issue of Ham Radio. 5x11½x11, 17 lbs. $19.95

CODE PRACTICE SET

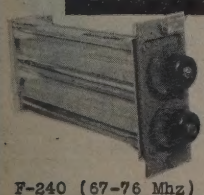
AN/GSC-1 CODE PRACTICE SET designed for student practice of Morse code, accommodating upto 10 keys. Hand keying produces either an audio tone with adjustable volume and pitch or a blinker flash. Has effective range of 40 ft. if background noise is less than 60 db Can be operated from 6, 12, 24, or 115 VDC or 115/230 VAC. With built-in speaker, blinker, volume and pitch controls and tubes 6X5 and 2/6AK6. Keys not included. 13½x18x11; 58 lbs sh. Used, $14.95;

BENDIX TRANSMITTER



BENDIX TA-12B TRANSMITTER, 40 WATTS OUTPUT CW, MCW, AND PHONE FROM 300 TO 600 KHZ AND 3000 TO 7000 KHZ. EACH OF THE FOUR CHANNELS HAS ITS OWN OSCILLATOR, OSC. TUNING, AND LOADING. 0-5 RF AMMETER MONITORS ANTENNA CURRENT. WITH TUBES 4/12SK7 AND 3/807. ORIGINALLY USED WITH MP-288 24 VDC 15 AMP DYNAMOTOR-MODULATOR (NOT AVAILABLE). POWER REQUIRED: 24 VDC 3 AMPS, 260 AND 400 VDC EXTERNALLY MODULATED. SIZE: 10½x15x11; WT: 40 LBS. USED, $39.50

BANDPASS CAVITIES



FULL-LENGTH TWIN-CAVITY BANDPASS FILTERS, 9-1/8" length; gold-plated. Similar to filters described in W4FXE's article in 2/80 Ham Radio Magazine. 8 lbs sh wt. $22.00 each

F-192/U (100-121 Mhz)
F-239/U (58.5-67 Mhz)
F-240 (67-76 Mhz) F-242/U (84-92.5 Mhz)
F-241 (76-84 Mhz) F-243/U (92.5-100 Mhz)

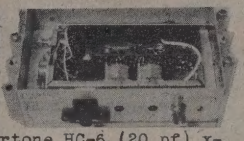
SHORT-LENGTH twin-cavities, $17.50 each.

F-195/U (163-184 Mhz)	F-201/U (284-314 Mhz)
F-196/U (184-205 ")	F-202/U (314-344 ")
F-199/U (224-254 ")	F-203/U (344-374 ")
F-200/U (254-284 ")	F-204/U (374-404 ")

TA-1/PT TELEPHONE

SOUNDPOWERED TELEPHONE SET WITH AUDIBLE AND VISUAL CALL SYSTEM. PALM OPERATED GENERATOR PUTS OUT APPROX. 100 V. THAT SOUNDS BUZZER IN OTHER PHONE AND ACTUATES VISUAL INDICATOR. COILED CORD WITH PUSH TYPE BINDING POSTS FOR INTERCONNECTING WIRES TO BE FASTENED TO. COMES WITH FIBER CARRING CASE. SIZE: 8½x3½x3½; WT: ACT 2LB USED $25.00 EACH

OSCILLATOR



TRANSISTORIZED CRYSTAL OSCILLATOR and BUFFER, 56 to 99 Mhz with 75 C temperature controlled oven. Requires 5th overtone HC-6 (20 pf) x-tal (not incld). Has external oscillator input and tuning meter and oven output. Requires 12-18 VDC reg. for osc., 22-39 VDC 1 amp for heater. W/BNC and two submini 27 (UG-1465) connectors, power input DEC 9P connector, and schematic. 6½x2x3¼, #OSC99828, $8.

LS-184 SPEAKER

LS-184/AIC-10 LOUDSPEAKER with AM-492 amplifier. 5" blast-proof speaker is rated 5 watts; 5.5 V input for 1 W output 300-6000 Hz. Input impedance approx 900 ohms. Amplifier uses four 5178 tubes parallel push-pull. Transformer coupled input and output. Requires 27 VDC 150 ma and 170 VAC 30 ma. DPDT switch requires wiring. 7¼x8¼ x4-1/8, 5 lbs sh. Used, w/schematic, $22.95

FL-8 AUDIO FILTER

1020 HZ AUDIO FILTERS, can be used to reduce interference in CW and audio signals for receivers. Each filter provides a sharp null at approx 1020 Hz in voice mode while frequencies near 1020 Hz are passed in "range mode. Response can be broadened by placing a variable resistor from input to output. Terminal strip connections. 3-1/8x3x1¾, 3 lbs sh. Used, $4.95

F-90 AUDIO FILTER, similar to FL-30 except has sharper filter action. Designed for aircraft panel mount; has one 28 V panel light and schematic. 5¾x2½x3¾, 3 lbs sh. Used, $3.95
MATING CONNECTOR for F-90, $2.50

RD-60/U CODE RECORDER OF RADIO TELEGRAPH CODE SIGNALS. USES 3/8" WIDE, 800 FOOT ROLLS OF PAPER TAPE. RECORDS CODE SPEEDS UP TO 1000 WORDS PER MINUTE WITH A RECORDING TIME OF 26 MINUTES (LOW) OR 13 MINUTES (HIGH). INPUT SIGNAL FREQ. 500 TO 5000 HZ. INPUT IMPEDANCE 500 AND 5000 OHMS. OUTPUT IMPED. 6 OHMS.

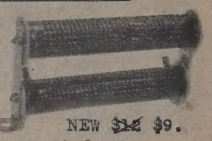
WITH 9 TUBES. POWER REQ. 115 V. 60 HZ. SIZE 19x16x12¾; WT: 150 LBS.

Used-reparable with cabinet, $24.95; BOOK $5. Gov't reconditioned with cabinet, $32.95
PAPER TAPE for RD-60, $1.00 ea; 20 rolls, $10

HEAVY DUTY TRIPOD

MT-3806/PPS TRIPOD, aluminum unit originally used to support field radar but would probably make a sturdy base for a large format camera or other item with some modification. Each 1¾" dia x 24" leg holds 1" dia x 22" telescoping section w/ 4" dia cleated feet. Legs can be rotated 180 se equipment can be mounted upside down. 48" max heighth; no center column. Includes removable 9x6x4 canvas pouch. 8 lbs sh; unused, $32.95

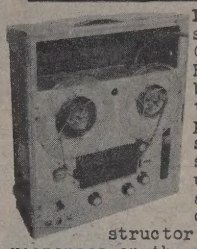
8 OHM 400 WATTS



POWER LOAD RESISTOR PAIR, each 8 ohms 400 watts 8⅛" lg X 1⅝" dia; usable for audio when non-inductive loads are not required. Includes mounting bracket; 3 lbs. #RES-8-400PR, NEW ~~$16~~ $9.

DALE 8 OHM 100 W 5% RESISTOR, 6½x¾, $2.00 ea
2 OHM 200 WATT SLIDER ADJUST, 10½x1½, $1.95

LANGUAGE LAB RECORDER

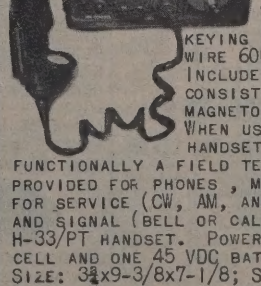


LANGUAGE LAB TAPE RECORDER, solid-state design; made by General Electronics Lab. Has three heads: one playback only master head on one track and the other two, playback and record, on a second student track. Uses standard ¼" audio tape on upto 7" reels at speeds 3¾ and 7½ ips. In practice, one can monitor the master "instructor's" track while recording responses on the student track. The student track can be played back simultaneously or separately from the master track depending upon control selection. The master track, which plays in one direction only, can be recorded upon or erased by switching plug-in wires from the student track heads. Besides its original usage, the recorder could be useful for code practice of for sound-on-soun sound audio experimentation. Audio response approx. 300-8000 Hz. Controls for student and master volume, playback-practice select, pause, and the other standard recording functions. Also three motors for very rapid fast forward/rewind, audio level meter, footage counter, 4" built-in speaker, and four plug-in circuit cards for audio, master audio, student audio, and bias oscillator. Uses common 2N2836 and 2N3702 transistors. Tape and reels not included; microphone and schematic not available. Requires 115 VAC 60 Hz. 18x16¼x8⅛, 36 lbs sh. Schematic included. Used, reparable, $19.95; Checked, $45.00

TELEPHONE TEST SET

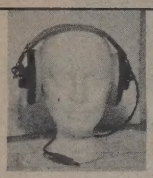
I-142/PTM-6 TELEPHONE TEST SET, measures characteristics of telephone and related equipment including these operations: 1. Sound source for mics and receivers; 2. Efficiency test for mics and receivers; 3. Capacitor test for leakage resistance; 4. Generator test; 5. Ringer test; 6. Insulation test; 7. Dial test indicating percent of pulse period; 8. Continuity test; 9. Instrument tests such as 600 ohm circuit for sound-powered equipment; 24 V. DC-AC res. circuit for common battery phones; impedance matching circuits for carbon and magnetic mics and receivers. Meter has scales -10 to +6 DB and 0-100 VDC. Requires external batteries for 3, 12, 24, and 135 VDC. Batteries not available. 19x12 x9, 46 lbs sh. I-142, used, $59.50
TS-903/PTM-6A, more recent; 65 lbs., $65.00

FIELD PHONE-CONTROL SET



C-2172/GRC-14 FIELD REMOTE CONTROL SET; DESIGNED FOR USE WITH AN/GRC-14 RADIO GROUP IN AM, PHONE, AND CW KEYING OPERATIONS OVER A TWO-WIRE 600 OHM TELEPHONE LINE. INCLUDES 20 HZ RINGER SYSTEM CONSISTING OF A HAND-CRANK MAGNETO GENERATOR AND BELL. WHEN USED WITH A H-33/PT HANDSET, THE CONTROL UNIT IS FUNCTIONALLY A FIELD TELEPHONE. TERMINALS PROVIDED FOR PHONES, MIC, AND KEY. SWITCHES FOR SERVICE (CW, AM, AND TEL); FSK CONTROL; AND SIGNAL (BELL OR CALL LIGHT). SOLD WITH H-33/PT HANDSET. POWER REQUIRED: TWO "D" CELL AND ONE 45 VDC BATTERY (NOT AVAILABLE). SIZE: 3¾x9-3/8x7-1/8; SHPG. WT: 13 LBS. PRICE: UNUSED, WITH USED H-33/PT, $24.95

Headsets — Telephone Equipment — Microphones — Handsets



HS-23 HEADSET, 2K ohm using R-14 elements and unused grey plastic headband; 4½' cord w/plug. Less cusions, $9.25

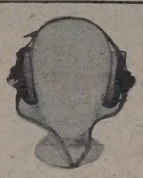
HS-23 w/HB-7 brown headband (not U.S. mfg), 18" cord and PL-354 plug, WRITE

4" CHAMOIS CUSHIONS for use with HS-23 or HS-33, #M301, new $2.25

RUBBER CUSHIONS #MC-162 2½" $1.00
MX-41 2¼", $1.25

HB-7 HEADBANDS: Grey $3.25; Br $3

CX-1334 CABLE, adapts H-113 or CW49505 to GRC-equip (JK-26 jack and U77 plug, $4.



#ZA/CAN3538 dynamic headphones, 125 ohm imped;

MOVING COIL-TYPE, QUALITY REPRODUCTION. ADJUSTABLE CANVAS STRAP FITS ON TOP THE HEAD; STEEL-BAND BEHIND. WITH CHAMOIS CUSHIONS, "Y" CORD, AND PHONE PLUG.
UNUSED, $5.95

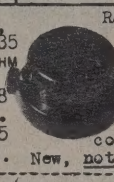
SOUND-POWERED INTRUSION

MICROPHONE 225 ohms with 6" stake for pushing into ground for artillery use. T-56 USI element 1614-11 unused $3.75

Western Electric Sound-Powered 1024 ohms
D-173016 trans.
D-173012 receiver
new $3.00 ea.

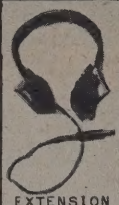
Carbon Elements
F-1 Mic. $1.50
Lip Mics: M-51 M-6 M419 etc. $1.50
Telephone elements: U-1 or T-1, $2.00

T-17 MIC, CARBON 35 TO 90 OHM PUSH-TO-TALK; PL-68 ON 5' CORD.
USED $6.95
RE-COND. $9.



RS-38 MIC, 100 ohm carbon; w/PL-68 4' cord NEW $8.
Used w/ coil cord $7
New, not U.S. $6.

HS-230 HEADSET w/250 ohm elements as used in HS-30; soft 3½" velour cushions, leather headband, & 18" cord w/PL-54 plug. Unused, $9.95



H-113/U HEADSET 600 OHM SOFT PLASTIC EAR CUSHIONS 18" CORD W/ PL-54 PLUG THAT FITS JK-26 JACK (SEE CD-307 EXTENSION CORD ELSEWHERE ON THIS PAGE)
WT: 3LBS. USED-EX $5.95

CW49505 HEADSET like H-113 except black and has provision for snap-on CW-51071 lip mic listed below.
Used-excellent $4.95

CW-51071 LIP MICROPHON 100 OHMS IMPEDANCE W/ 2 SNAPS FOR FASTENING TO H-62 HEADSET, 14" CORD W/ PL-291 PLUG INTO EXTENSION CORD CD-318 LISTED ON THIS PAGE OR CW-49561 EXTENSION CORD LISTED BELOW
USED $1.00

JK-38 PHONE JACK FOR INLINE USE, TAKES TWO PL-55 PHONE PLUGS $1

PUSH BUTTON SWITCHES FOR HANDSETS THAT USE BUTTERFLY TYPES. DIRECT REPLACEMENT. #5930-327-7308 $1.25

H-63/U HEADSET 600 ohm, BOOM MIC 100 ohm; 14" cord w/plug.
Used, $9.95
ELEMENTS, phone or mic, $2 ea.

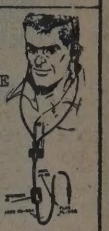
CARBON MICROPHONES 50 OHM F-1 TYPE PRESS TO TALK
No. C-3 (LEFT) 4' CORD PL-55 PLUG
UNUSED $4.95
M-2/10A/1422 (RIGHT) 4½ FT. CORD PL-68 $3.95

CO-78 HEADSET "Y" CORD 7' LG. RUBBER COVER NO PLUGS, TERM. $1.50

AN/GSA-6 CHEST GROUP for use with H-63 headset. Includes SA-142 switch and CX-1077 cord w/U-77 plug. Used, $8.00

SWITCHBOARD CORD 4½' w/PL-47 #BD-96 $1.50

2000Ω HEADSET, lightweight 6½ oz. adjustable headband, 54" cord rubber cushions & phone plug.
ELI-#978 new $3.95

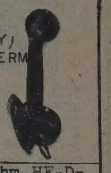


HS-30 HEADSET 250 OHM IMPEDANCE hearing aid type light weight headband 7½" cord w/spade lugs that wire into CD-604 or CD-605 cord for 4000 ohm.
Used, $7.50

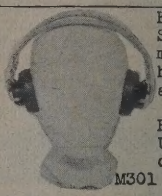
H-33/PT HANDSET PHONE 300 OHM, MIC 40 OHM W/CORD UG-77 PLUG & PUSH TO TALK SWITCH.
USED, $10.

HS-16 HEADSET OR EQUIVALENT (SIMILAR TO PIC.) 2000 OHMS WITH 6' "Y" CORD & METAL TIPS. Unused $4.95

TS-9 HANDSET WITH PUSH TO TALK SWITCH (NOT BUTTERFLY) WITH 3 COND. CORD 4' AND TERMINAL LUGS. NEW COND. $4.95

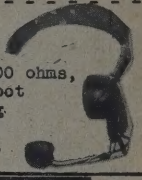


TS-13 HANDSET, push-to-talk and cord w/PL-68 & PL-55; p/o BC-659. $12.



HS-33 600 ohm HEADSET w/ANHB-1 elements, grey HB-7 headband, 4½' cord and PL-354 plug.
Used, $15.00
HS-33 w/brown (not U.S.) HB-7, 18" cord & plug. WRITE M301 CHAM CUSHION $2.25

H-81/H-144 OPERATOR STYLE HEAD & MIC SET, rubber-cover elements; receive 300 ohms, mic 40 ohms. On 4 foot cord with UG-77 plug as used with GRC-equipment. Used $14.

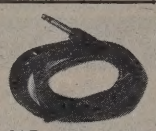


T-45 LIP MIC

BRASS KEY WITH 2 BEARINGS; ADJUST. CONTACTS, COVER, CORD, AND PLUG. #R11950, $4.75

M-86/U MAGNETIC MICROPHONE: 50 OHM IMPED. PUSH SW. LEVEL CONTROL 7' CORD. UNUSED $14.95

T-30 THROAT MIC.



T-45 MICROPHONE CARBON TYPE 100OHM 50DB BELOW 1 MILLIVOLT, FLAT RESPONS WITH PL-291 2 CONT MALE PLUG, 11"CORD
Used, $4.00

CX-1324 CORD, 4 ft with PL-55 each end
Unused $1.50

CX-2481 CORD, 12 ft one end PL-55, other PL-68; $1.75

CX-2482 CORD, 6 ft with PL-68 each end
Unused, $1.65

PL-68 MIC PLUG 30" Used, $1.00

JK-33 JACK TO FIT PL-68 MIC. PLUG.
Used, 3 for $1.00

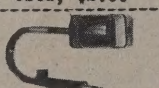
COILED CORD SET

COILED CORD SETS

Three conductor,
24" to 72" 75¢
12" to 36" 50¢

3-cond. in colors 18"-36"; green, red, lt. blue 50¢ Grey or pink, 3/$1

CD-307 CORD EXTENSION FOR CORDS WITH PL-54 PLUG AS USED ON HEADSETS, 65"LG WITH JK-26 JACK & PL-55 PLUG.
Used, $2.00



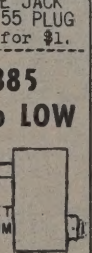
CD-604 CORD WITH IMPEDANCE MATCHING TRANSFORMER 500OHM TO 4000, USED WITH HS-30 HEADSET, 6" CORD & PL-54 PLUG.
Unused $1. Used 60¢

CD-605 CORD SAME AS CD-604 ONLY 30" LG. WITH PL-55 PLG
Used, $2.00

PL-55 PHONE PLUG 30" CORD $1.00

JK-34 PHONE JACK TO FIT PL-55 PLUG
Used, 3 for $1.

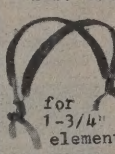
MC-385 HIGH to LOW ADAPTER



IMPEDANCE FOR HEADSET 4000-600OHM
Unused, $1.50

T-30 MICROPHONE CARBON TYPE, 75 OHM 50DB BELOW 1 MILLIVOLT, FLAT RESPONS WITH PL-291 2 CONT MALE PLUG, 11"CORD
PRICE: Used, $4.00

TP-6 TELEPHONE 1940's-50's style phone with metal base, plastic handset, rotary dial, & ringer; 8 lbs. Used, $15.



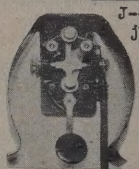
HB-1 HEADBAND $1.50 for 1-3/4" elements

HB-1/2000 ohm elements & Y cord 6' used used $4

BLACK STANDARD TELEPHONE HANDSET & CORD, old style,
Used $5.
Newer-style used $3.00

DOUBLE PLUG D178542 for headset; similar to type 289 and 298. Unused $2.50

TELEGRAPH KEYS



J-45 LEG IRON w/J-37 KEY with adjustable contacts. Includes 7½' CD-201 cord w/PL-55 plug. 4 lbs sh. Used, $12.00
LEG IRON only, $4.75

CANADIAN #48 KEY (left), ball-style button; toggle switch for Send-Receive. 5½x2½ base, canvas leg straps, and 5' cord with PL-68 plug. 4 lbs sh. #CAN-48, unused, $8.50

STANDARD TELEPHONE EQUIP.

All of our standard telephone equipment is sold as "used-complete" only unless otherwise noted. Some adjustments may be required so that the equipment conforms to your local telephone company's system.

CALL COMMANDER SWITCHBOARDS, NE-634C-1 or similar with plug; gray, green, or beige colors:
11-line 1-hold $22.95
17-line 1-hold $28.95

5-LINE 1-HOLD DESK SET phone style w/plug; black. $17.95

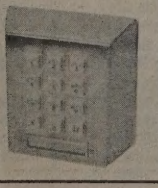
2-LINE DESK SET phone w/terminal lug connections; black. $16.95

STARLIGHT TELEPHONES with dial but no ringer; cord has terminal lug connections. Various colors; specify 1st, 2nd, 3rd choices. 5 lbs; used, $15.

STARLIGHT WALL PHONE, as above but for wall mount. Used, $16.00

WALL TELEPHONES with dial and ringer; cord has terminal lug connections. Styles and manufacturers vary; no color choice. Used $17.

AUTOMATIC ELECTRIC TONE KEY PAD with brushed aluminum cover; use for tone control, signaling, etc. Each key produces two tone output; characters 0 thru 9, *,#. Requires 9-15 VDC. 4-3/8 sq x 2"d, 2 lbs. With hook-up info. #AE-WA-1127, NEW, $9.95



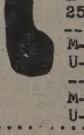
FLAMEPROOF KEY

J-5A FLAMEPROOF KEY, early U.S. WW-II vintage; 3-1/8x2-5/8x3/8 phenolic base. Ball-style button; 2 lbs sh. Unused-boxed. $9.95

J-37 Key with brass adjustable contacts, mounted on bakelite base 3"x6"x 3/8" with cord.
Used $7.95
Without base, $6.

J-38 KEY, like J-37 except w/ shorting bar; 4½x3 base.
Used $10

JEN-20 HANDSET w/AMPLIFIED receiver for the hearing impaired; Black, white, or beige. NEW $15.

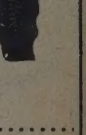


H-60 HANDSET f/TA-43-312 phones. used $10

H-189 HANDSET f/PRC-25, VRC-12 Used $12.

M-80 MICROPHONE with U-229 plug. used $10

M-29 MICROPHONE with U-77 plug. used $5

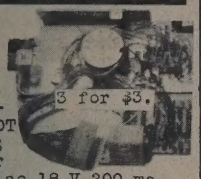


CHAMOIS HEADSET CUSHIONS 4" DIA.
$2.25 PR

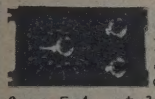
METAL HANDSET HOLDER f/older style handsets. Used $3.

GENERAL TIMERS TM-506 to right, 0-14 second indicator 110 volt 60 hz. motor repeat cycle used $5.50 TM-229 same as above, no face plate, knob or dial. For 10 seconds oper. max. U $4.

TIMER BONANZA



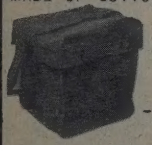
CARTRI-VISION TIMER CONTROL, 115 VAC 60 Hz motor w/SPDT contacts; upto 8 hr delay. Also 18 V 200 ma transformer, 12 VDC SPDT relay, SPDT & 4PDT center-off slide switches, transistors, rectifiers. $1.35



STOVE TIMER CLOCK MECHANISM w/start-stop control dials. Grey face 5x4; style may vary. 115 VAC 60 Hz w/switch rated 230 VAC 30 amps. Knobs not original, but usable. 2 lbs; #Q155760, $3.50

CANVAS

BAGS, STRAPS AND COVERS, MAY BE USED OR UNUSED. ALL ARE CLEAN WITHOUT TEARS. SHOULDER STRAPS ARE ADJUSTABLE AND MADE OF COTTON WEBBING.



CW-TRB ROLL BAG for tools, etc.; folds to 17"Lx8½"W. Used, $5.00

CW-189 BAG w/ strap; 10"Hx 9½"Wx8"D. Minor tears, $5.

BG-1942 BAG, AS ABOVE WITH STRAP CLOSE COVER AND 8"Hx 8"Wx2½"D, $2.50

BG-56 ROLL BAG for MS-49 thru -54 mast sections; no tears. Used, $6.50

MAST BASE COVERS, unused: BG-108, for MP-48, $3.00 BG-67, for MP-37-57, $2.75

ST-19 CARRYING STRAP, 65" LG. X 2"W; w/2" SWIVEL-EYE SNAP HOOK AND TONGUELESS-BAR BUCKLE NEAR ONE END TO ADJUST LENGTH. $3.00

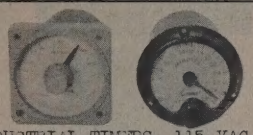
ST-42 CARRYING STRAP, AS ABOVE, NO SWIVEL, $2.50

ST-54 CARRYING HARNESS AS USED WITH BC-1000 TRANSCEIVER; 38½" EXTENDED LENGTH, 1¼" WIDTH. ADJUSTABLE STRAPS AND SNAP HOOK, $3.

ST-120 HARNESS FOR PRC-8-9-10 RADIO SETS. SIMILAR TO ABOVE, SAME USE, $5.00

CW-216 CARRYING BAG F/PRC ANTENNA AND H-33 HANDSET; COMPARTMENTS FOR EACH. O/A 19" LONG WITH TOP 5" WIDE TAPERING TO 3" WIDE AT BOTTOM, 3½" DEEP. W/SNAP COVERS AND HANGER FOR AMMO BELT, $6.00

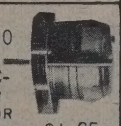
CW-206 ROLL BAG FOR MS-116 SERIES MAST SECTIONS. COMPARTMENTS FOR GRC-SERIES SET ACCESSORIES. SNAP AND WEB STRAP CLOSURE. O/A 40" LONG, 3"Hx5"D. Unused $8.



INDUSTRIAL TIMERS, 115 VAC 15 amp contacts; Unused: EAGLE SIGNAL #175-0-100-13 15 sec delay, 0-100% dial set; 3¼x3¼x5. ~~$19.45~~ $15. CRAMER 412E, 3¾" dia x 5½", 30 min $12. 60 min $12.50

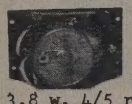
TIME-O-MATIC SIGN CONTROL, 115 VAC 60 Hz. THREE CONTACTS RATED 15 AMP EACH. TWO ALTERNATELY MAKE AND BREAK ONCE PER SECOND FOR 15 SEC; OTHER BREAKS FOR 20 SEC. AT THE SAME TIME. THEN ALL THREE MAKE AND THE CYCLE REPEATS. SIZE: 3x5½x6; SHPG. WT: 5 LBS. #53 K-155, $4.95

KEY SELECTOR CONSISTS OF MANUAL CLOCK MECHANISM FOR SENDING 17 IMPULSES, CAN BE SET TO CALL ANYONE AT 78 STATIONS, SPST LEVER SWITCH 2x2½x4½: 4C5100.60A $1.50



SYNCHRON CLOCK MECHANISM, No.610 110 v. 60 CYCLE 3 WATT 1 RPM #EC-129RB, WITH GEAR ASSY, NO RESET OR COVER. 2x2x2½; 4oz. $1.35

SYNCHRONOUS MOTOR, 26 volt 60 cycle, 60 rpm, shaft 1x 1/16, motor 1½x2⅝ #1147 $2

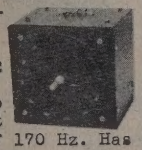


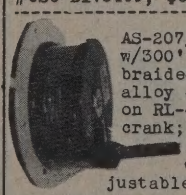
MOTOR DRIVEN RELAY SPST norm. open 115 v. 60 hz. 10 amps. cont. motor 115v 60 hz. non. sync. 3.8 w. 4/5 rpm. Cams can be set to set to make cont 30 to 60 seconds. Also has provision to bring out a shaft. size 2½x4x2, 1 lb. #N17R-68292 unused $6.00

CRAMER TIMER SWITCH ASSY. MODEL TC-60SEC, 230 v 60 CYC, SWITCH 5 AMP. CONT. 3.8 w. 4/5 RPM MOTOR. $1.95

THERMAL SWITCH opens 30 sec. after cooling. Operate 130 vac. 2m ohm res. 1½x1¼, 20" leads. M-4199 $1.50

AUDIO OSCILLATOR ASSEMBLY, originally in circuit with 2 6SJ7 tubes to produce 425 to 2295 Hz output in 12-steps of 170 Hz. Has 24/12 pf trimmers and 21 temperature compensating capacitors and resistors. Use as basis for homebrew oscillator. 5½x5x4¼, 5 lbs. #OSC-DIV3499, $6.95





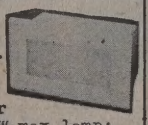
AS-207/CRT-3 ASSY w/300' #16 strand braided cadmium alloy copper wire on RL-48 reel and crank; mounted to aluminum door w/adjustable brake and snap swivel. Part of CRT-3 xmitter antenna which attached to kite or balloon. 2x4½ dia, 3 lbs. No door-damaged reels, 6.95 Wire only, $4.95

HONEYWELL HUMIDIFIER CONTROL as used on home humidifiers. Plastic element tape senses 10%-70% humidity and closes normally open 120 VAC contacts depending on setting of variable control. Shaft 1x¼ dia; o/a 1x 1¾x4½. #H46B1150 NEW $1.95

RECORDING TAPE

MAGNETIC TAPE FOR MOST AUDIO RECORDERS, 10½" REEL; ¼" WIDTH APPROX. 3600 FT LEADING MANUFACTUERS. WT; 2 LB AST3045 $1.50 4 FOR $5

OVERHEAD LIGHT FIXTURE for RV van or trailer. Automotive double contact lamp socket for 6-12-24 VDC 25W max lamp; also 5½x2⅝ diffuser lens. Outer 8½x5; fits in 7x3¾ x3½. 4 lbs. #174-OL NEW $4.



HEATING ELEMENTS

ROUND HEATING ELEMENT, 6" OUTER DIA., 3¾" INNER DIA. ¼" THICK. 118 VAC 500 WATT. NUT TERMINALS. #HSW-6, $3.

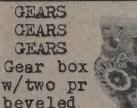
BRYANT STRIP HEATING ELEMENT, 120 VAC 150 watts; 1½"W x 8"L including mounting flanges. 2 lbs sh. #6115-931-7883, NEW, $2.95

LOOP COIL TYPE, 9" LONG; 115 VAC 30 w. #83975, $2.00

DOUBLE "U" LOOP COIL, 3" HIGH. 115 VAC 1000 WATT. CHROMALOX #2111-2, $2.50

LONG DURATION TIMER WITH 115v RESET RELAY. 115v 60 HZ 1/16 RPH MOTOR. CAM ACTUATES SPDT MICRO SWITCH. 3½x2½U. UNUSED $2.95

ILLUMINATED CLOCK MECHANISM AS USED ON CLOCK RADIOS. CLEAR PLASTIC FRONT TO TRANSMIT LIGHT, NO HANDS. HAS 60 MIN TIMER ALSO HAS ON-OFF-AUTO ALARM 2"SQ FACE. 115v 60 HZ. SH WT 2 LB. UNUSED $1.50



GEARS GEARS GEARS Gear box w/two pr beveled 45 gears and 20 other gears ¼" to 1½" dia on bronze bearings 4x7x4½, 5 lbs #TUN/ARC45 $5

AIRCRAFT COCKPIT EXTENSION LAMP #B-7; uses standard 2-contact auto bulb W/5½' spring retractable cord, dimmer, & ON-OFF sw. Plastic; 2 lbs Used, $5.95

TIMER SPRING WOUND TYPE closed when unit is wound, opens at the end of time. 30 minute 115 volt 20 amp. Lux#2500 $3.95 60 minute 120/240 vac 15 amp. Rhodes 65b $4.50

MN-40 INDICATOR 0-360 DEGREE SCALE SIMILAR TO ABOVE EXCEPT THAT IT IS OPERATED MECHANICLLY BY USE OF A SPLINED FLEXIBLE SHAFT OR SPIN KNOB OR BOTH.
MN-40 INDICATOR 5" $4.50
MC-124 SHAFT 20" $1.50
MC-137 SPIN KNOB $1.00

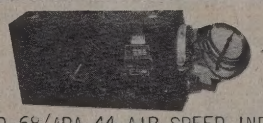
PARTS GALORE

TELEMETER PROGRAM SELECTOR part of an obsolete pay TV system which featured prerecorded tape program review, coin deposit register mechanism, and audio amplifier-power supply with 4" speaker. Generates 8 Mhz signal to trigger mechanism and 35 Mhz video output. Tape magazine has recording head and plays 66' of ¼" tape in continuous loop. Mechanism has 5 RPM Cramer 115 VAC motor plus other motor, gears, etc. Power supply output 150 VDC 100 ma and 6.3 V 3 amps. Tube line-up 3/6U8, 6BE6, 6BA8, and 12BH7. Cabinet 15x7x7, 21 lbs sh. Our bargain price is worth the tape magazine, coin mechanism, power supply, or tubes alone. NEW, $6.95

SWIVEL CASTERS

SWIVEL PLATE CASTERS, 3¾"dia X 7/8" wide wheel with 3½x2⅝ swivel mounting plate; from computer equipment. 2 lbs. #SW-CAST, $2.50 ea; 4/$8.00

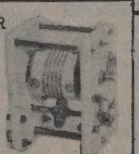
STUD MOUNT CASTER, similar to above but has 2" long X 1" dia threaded stud instead of mounting plate. #STM-CAST, $1.75 ea; 4/$5.



ID-68/APA-44 AIR SPEED INDICATOR; CONTAINS A KOLLSMAN TRUE AIR SPEED METER AND A INDICATING WITH A RANGE OF 84 TO 434 KNOTS. HAS OSTER MOTOR AV-240, RELAY, 1/6AK5 TUBE, COMPENSATING DEVICE PLUS MANY OTHER COMPONENTS. 15x7½x5; 20 LBS. USED $15.

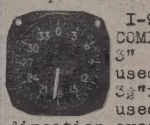
RHODES 60 SEC TIMER, times from 2 to 60 seconds; bell signals time elapsed. 3" dia plastic case; 1 lb sh. #56414, NEW, $2.50 each.

ROLLER INDUCTOR 1.3 uHy, 5⅜ turn #12 wire forms 1⅜"L X 2" dia coil; 3/8x¼" dia shaft. Ceramic form and end plates. O/a 5x3x4½, 3 lbs sh. #939-L5-SM, used $5.95

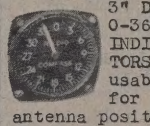


ID-718/ARN DUAL AZIMUTH RADIO COMPASS INDICATOR, 3" dia 360 degree scale in 2 deg increments. Has two selsyns 26 V 400 Hz or 12 V 60 Hz; usable in 9/79 OST antenna position project. 6¼"D. Unused $18.

MC-507 SELSYN-INDICATOR, transmitter unit usable in wind direction and beam locater systems. Has 3" dia 0-360° scale 5° steps; 12-24 VAC 60 Hz req. 2 lbs. $8.95 2/$15.



I-91(*) RADIO COMPASS INDICATOR 3" 360 deg. sc. used w/ARN-6 sys. 3⅜"x3". (can be us used with wind direction system) used $9.95 NEW $14.95

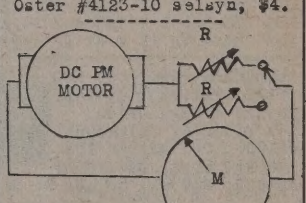


3" DIA 0-360 INDICATORS, usable for OST antenna position project. I-81, 5 markes, used $8.95 ID-637/ARN, 2 marks and VAR knob, unused, $10.95

I-101 CROSSPOINT INDICATOR, 3" dia f/glidepath Good movements/ broken glass $3.

WIND SPEED

WIND DIRECTION INDICATOR using Oster 4123-10 selsyn listed on page 17. Design your own wind vane and indicator so that you can monitor wind direction from inside your house. Oster #4123-10 selsyn, $4.

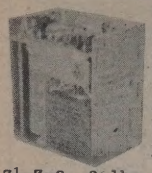


WIND SPEED INDICATOR using a 24 VDC PM motor as a generator, a 1 milliammeter and a resistor range scaler so that wind speed can be monitored indoors. We will supply the PM motor and a 3½" rd 0-1.0-50 scale (FS-1 ma) meter; you design the rest. #WS-MOTOR & METER, $7.95

AY-1 AUTOSYN MOTOR AS USED IN I-81, I-82 ETC. DIRECT REPLACEMENT. $5.95

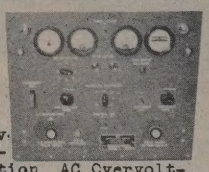
I-81 & I-82 ARMATURES ONLY #3H2716/A1, UNUSED, $3.95
I-82 GLASS ONLY, $2.00

SMALL INVERTER SUPPLY



TRANSISTOR INVERTER POWER SUPPLY, input 24 VDC 500 ma; output 110 VDC 60 ma. Can be used to supply B+ for low power tube type receivers. Transformer has 286 VCT 70 ma secondary. Other uses possible with modification Reduced output at lower input voltages. Schematic included. 3½x3x2, 2 lbs sh. #522-1091-004, used-checked, $9.95; used-defective $4.95. DA-15S PLUG to fit above inverter, $1.50 ea.

45 KW GENERATOR CONTROL



GENERATOR CONTROL PANEL, United Electric #2K3890 for 45 KW 208-416 VAC 50-60 Hz installation; 3½" rd meters for 0-450 VAC, 0 to 125% full load, 0-60 KW, & 48-62 Hz (reed-type); also voltage, frequency, and governor adjusts, AM-VM selector, On-Off Parallel Operation, AC Overvoltage Reset, and Field Flash Voltage button. 22½x18½x6¼, 56 lbs sh. Unused, $125.00

NORTH ELECTRIC MODULAR POWER SUPPLIES, stable solid-state units removed from equipment. All 115 VAC 60 Hz input; outputs -5% @ 40 centigrade. Appearance varies from picture; 20 lbs sh wt approx.

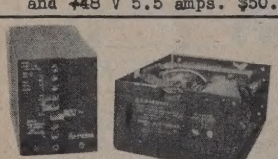
#N14003KA	3.7 VDC 14 amps	$21.00
N14005A	5.0 VDC 13 amps	37.50
N64005A	5.0 VDC 28 amps	55.00
N11006A	6.0 VDC 3.5 amps	15.00
PMC PXC-C-36	36 VDC 2.3 amps	22.00

19"W RACKMOUNT MODULAR SUPPLIES, reparable:

#N17005A	5.0 VDC 49 amps	$60.00
LMF-A-3	5.0 VDC 31.5 amps	45.00
N17006A	6.0 VDC 47 amps	60.00

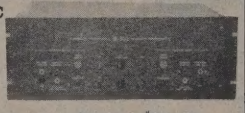
DEC H721 RACKMOUNT SUPPLY, ±5% adjust output +10.5 V 3 amp, -15.5 V 5 A, and -5 V w/5 A current limit (fused 25 A); fan cooled. $35

SPERRY 4113281 RACKMOUNT SUPPLY, 120/240 VAC input; outputs +6 V 5 amps, -12 V 2.5 A, and +48 V 5.5 amps. $50.00



LAMBDA SWITCHING POWER SUPPLIES, all outputs ±5% adjust; ratings @ 40 C. Not suitable where RF noise is a consideration. Unused or little used.

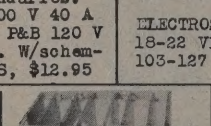
#	Output	Reg	Size	Wt	PRICE
LUS-8-24	24 V 700 ma	4%	3½x1½x4	2	$10.95
LUS-11-15	15 V 7 amp	4%	3½x3x6¼	4	$19.95
LYS-X-28	28 V 5 amp	1%	2½x5x7	6	$26.95
LGS-EE5-OVR	5 V 120 A		4½x6½x17	25	$115.
LGS-EE15-OVR	15 V 47 A		4½x6½x17	25	$115.



PHILBRICK -300/+300 VDC POWER SUPPLIES, 0.001% designed regulation; not metered, rackmount. #R-300, 300 ma; 42 lbs sh wt. Used, $37.50
#R-600, 600 ma; 55 lbs sh wt. Used, $50.00

TRANSFORMER & DIODE ASSEMBLY with Signal 24-4 transformer which has two 12 V 4 amp secondaries. Also two 200 V 40 A diodes, two 300 V 25 A SCR's, and a P&B 120 V 50-60 Hz DPDT relay w/10 A contacts. W/schematic. 10½x3½x3¼, 8 lbs. #ASI-M912VPS, $12.95

HI-CURRENT BRIDGES



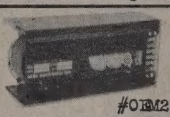
#A9013AX4 1-Ø DUAL PARALLEL BRIDGE ASSEMBLY, has eight diodes each 100 V 83.7 amps or 220 A if air-cooled, 4500 A surge 1 Hz. 7½x18½x9, 26 lbs sh. ~~$39.50~~ $30.

#A9013CS1ED1 3-Ø FULLWAVE CENTER TAP BRIDGE with 6-300V 83.7 amp diodes; 7x14x8½, 21 lbs sh wt. Used. ~~$42.50~~ $32.

#5961-860-1165 (Collins #548-1278-00) THREE PHASE FULL WAVE BRIDGE, bridge rating 95 VDC max 290 amps max using six diodes. 6½x12½x8, 22 lbs sh. New $40.

PP-68 VIBRATOR POWER SUPPLY, provides 100 to 110 VAC 60 Hz 15 or 50 watt output from 6 VDC 6/13 amps (15W/50W) or 12 VDC 3/6.5 amps (15W/50W). With 66" battery cable. 9½x11½x8½, 34 lbs. Checked, $22.95

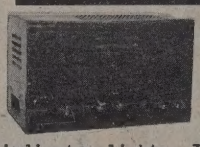
MRC-66 DC to DC SUPPLY has two separate DC to DC transistor inverters operated by 24 VDC input: Output "R" -70 V bias, +100 VDC 20 ma, and +200 100 ma. Output "T" +200 VDC 150 ma 70 VDC (isolated +,-) 75 ma, and 6 VAC 5 amps. Inverters in separate boxes which can be removed and used independently. Also has 24 VDC control relays, Reg-Ohm regulator for 6 VAC, locking cabinet with cover & key, plug, and schematic. 9½x6x16, 21 lbs. $22.00



24 VDC 5.4 AMP POWER SUPPLY, input 105-125 VAC 50-60 Hz. 10x5x5; 17 lbs sh. Used. #OEM24N5.4-1, ~~$39.50~~ $32.

COLLINS 516F-2 POWER SUPPLY for KWM xmitter; sold less cabinet and tubes. 28 lb Used-reparable $75. W/cabinet, $100.00

12/24 VDC 22/11 A



CPP-2 POWER SUPPLY, output 12 VDC 22 amps or 24 VDC 11 amps. With mains and load control and output mode indicator lights. Input: 90-130 VAC 60 Hz. Size: 11x18½x10½, 90 lb sh wt. Used. ~~$65.00~~ Now $45.00

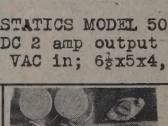
DYNAMOTORS

TYPE	USED	RENEW	TYPE	USED	RENEW
DM-25	2.95	4.95	D-401		6.95
DM-28	6.95		D-402		6.95
DM-32	2.95	4.95	D-401(SPEC)		8.95
DM-32	WRITE		DY-9	9.95	
DM-33	WRITE		DY-10	12.95	
DM-34	WRITE		DY-17	no base	$15.
DM-35			DY-21	8.95	
DM-36	2.95	6.95	DY-22	9.95	
DM-37	WRITE				
DM-40	WRITE		DA-6A		8.95
DM-41	WRITE		DA-1F	11.00	
DM-42		15.00	DA-14		8.95
DM-43					
DM-53	4.95		BD-77		19.95
DM-53	5.95	(12V)	BD-83		8.95
DM-64	7.95				
			PE-86		5.95
ADVISE US OF YOUR			PE-98	8.95	(COMP)
REQUIREMENTS OR			PE-98	4.95	(DYN)
WRITE FOR SPECS.			PE-94	9.95	

CARTER MA-2503; INPUT 6 VDC 6.3 A. OUTPUT 250 VDC 30 MA. SIZE 3½x5x3; WT. 6 LBS. USED $4.95

41S14 F/COLLINS 618; INPUT 27.5VDC 22 AMPS. OUTPUT 650 VDC 550 MA. & 250 VDC @ 150 MA. SIZE 9x14 N $15

ELECTROSTATICS MODEL 50 SUPPLY, 18-22 VDC 2 amp output from 103-127 VAC in; 6½x5x4, $20.00



TRANSISTOR-REGULATED SUPPLIES 115 VAC in: #CD12N.85, 12 VDC 850 ma; on 4½" x 5" circuit board, $6.

THUNDER SUPPLY, 3.7 VDC 750 ma output; info for 3-10 V 500 ma modification. 3½x5x3, 4 lbs. $6.

INVERTERS

EICOR INVERTER X3516-1 INPUT: 27.5 VDC 165 AMPS. OUTPUT: 115 VOLT 400 CYCLE 2500 V.A 1 PHASE SIZE: 16x11½x8; WT: 75 LBS. EXCELLENT COND. $49.50

PU-7 INVERTER

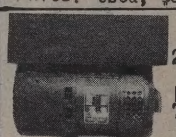
INPUT: 28 VDC 160 AMPS. OUTPUT: 115 VAC. 400 CYCLE 21.6 AMP. 1 PHASE SIZE 19½x8x10½; 100 LBS. PRICE: UNUSED $49.50

5AS13NJ3 INVERTER

INPUT: 26 VDC 100 AMPS. OUTPUT: 115 VAC 400 CYCLE 1500 VA 1 PHASE SIZE: 14x9½x6; WT: 50 LBS. PRICE: UNUSED $45.00

MG-149H INVERTER

INPUT: 24 VDC 36 A. 750 VA. OUTPUT: 115 V. 400 CYCLE 1 PHASE 500 VA & 26 V. 400 CYCLE 1 PHASE 250 VA. SIZE: 12x8½x8; WT: 25 LBS. PRICE: Used, $39.50



INVERTER INPUT 27.5VDC 60A OUTPUT 115 V 400 CY 750 W 3 PHASE 26 V 400 CY 50 W 1 PHASE SIZE 11x10x6; WT: 40 LBS. LELAND#10285 USED $34.95

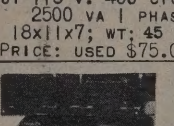
WINCHARGER 51S1 DYNAMOTOR on 15x9½ base. Input 26 VDC 22 amps; output 1500 VDC 200 ma and 330 VDC 100 ma. 44 lbs sh. Used, $20.

DYNAMOTORS from T-195 xmitter; 27 VDC input. Used.

#HV-DYN/T195, input 28 amps output 1000 VDC 500 ma; 8½x4 dia, 15 lbs. $32.50
#LV-DYN/T195, input 10 amps output 250 VDC 300 ma, -45 VDC 10 ma, and 115 VAC 30 VA 400 Hz. 8½x3 d. $25.

JACK & HEINTZ F-132 INVERTER INPUT 27.5 VDC @ 100 AMPS. OUTPUT 115 V. 400 CYCLE 1500 VA 3 PHASE SIZE: 16 x 11 x 7; WT: 55 LBS PRICE: USED $75.00

F-147 INVERTER INPUT 27.5 VDC @ 180 AMPS. OUTPUT 115 V. 400 CYCLE 2500 VA 1 PHASE SIZE 18x11x7; WT: 45 LBS PRICE: USED $75.00



JACK & HEINTZ INVERTER #AN-3532-2 INPUT 27.5 VDC @ 20 AMPS. OUTPUT 115 VOLT 400 CYCLE, 3 PHASE, 250VA VOLTAGE REGULATED. SIZE: 12x7½x4½; WT: 20 LBS. FED#6125-617-0967 Used, $18.95

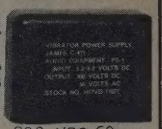
1000 VDC 350 MA

BD-77 DYNAMOTOR; INPUT: 14 VDC 39 AMPS. OUTPUT: 1000 VDC 350 MA. SIZE: 11x10x6½ SHPG. WT: 40 LBS. $19.95

PE-73 DYNAMOTOR; SAME AS BD-77, BUT WITH 28 VDC 19 AMP INPUT, RECOND. $30.00

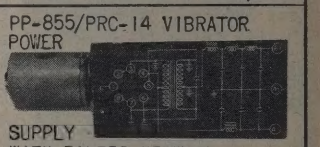
DM-42

DM-42 DYNAMOTOR; INPUT: 12 VDC 39 AMPS. OUTPUT: 1030 AND 515 VDC @ 215 MA. 7x7x11; 42 LB. RECOND. $15.

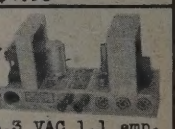


VIBRATOR POWER SUPPLY, USED WITH AN/PIP-1A PUBLIC ADDRESS SYSTEM. INPUT: 5.2 to 6.2 DC VOLTS; OUTPUT: 300 VDC 60MA, 50 VAC. SIZE: 4½x3½x2½ 3 LBS #H17VD-11077 NEW $5.95

PE-104 POWER CONVERTER. 6 OR 12 VDC INPUT, OUTPU 90 VDC, 1½ VDC AND -45 VDC. SIZE:4x4x7; WT: 10 LBS. NEW $3.95 W/EXTRA VIB.$4.95



PP-855/PRC-14 VIBRATOR POWER SUPPLY WITH FILTER NETWORK. 6 VOLTS DC INPUT, 5.35 AMP OUTPUT 135 VDC @ 155 MA. SIZE:7½x2½x2½; WT: 3 LBS. NEW $4.95



PP-1234/U 115/230 VAC POWER SUPPLY for URM-32 freq. meter; output 180 VDC 20 ma, 6.3 VAC 1.1 amp. Xformer 460 VCT 20 ma, 6.3 V 1.25 A.; Choke dual 20 Hy 20 ma. W/6X4 tube. 12x3½x1½ 12 lbs sh wt. Used, $14.95

HIGH VOLTAGE

ACE HIGH VOLTAGE POWER SUPPLY; OUTPUT: 3000 VDC 50 UA APPROX. INPUT: 115 V. 60 Hz. USES TWO 1B3 RECTIFIER TUBES. WITH MOUNTING FLANGE. SIZE: 6x7x2; SHPG. WT: 8 LBS. UNUSED. #ACE-HV3000, $5.95 SPECIAL!! 2 FOR $10.00

12 V DC SUPPLY

PS601301 TRANSISTOR REGULATED POWER SUPPLY, output +12 V 2.7 A and -12 V 1 amp with OVP. Also -6.8 V 300 ma out. Schematic included for 115 or 230 VAC operation. 9½x5½x7, 16 lbs sh wt. Used, $12.00

PP-18 CONVERTER 12 VDC 4 AMP TO 24 VDC 1.5 AMP. PARRALLEL FOR MORE CURRENT. WITH VIBRATOR ALSO PLUG SIZE:6½x5½x8½; WT: 10 LBS. NEW $4.95

TUBE SOCKETS

4X150 SOCKET PAIR f/ T-195 xmitter modltr 4½x3x2½, #T195/4X150 Removed, ~~$12~~ $10.

4-125A
4-400A
CERAMIC SOCKET, 2-7/8" square; removed from equipment. JOHNSON 275, $6.50 each.

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CHIMNEYS for SK600/610 or 124-110 (4X150/4CX250); used. #SK606/124-111, $3.00 ea. 2/$5.

OCTAL MOULDED 2 HOLE MTG. $ .35
" " RING " .35
" CERAMIC (SPECIFY) .60
LOCTAL MOULDED 2 HOLE .35
CERAMIC TYPES 4,5,6 & 7 CONTACTS STANDARD SIZES .65
MOULDED TYPES 4,5,6 & 7 CONTACTS, STANDARD SIZES .45
MINIATURE MOULDED 7 & 9 .35
" CERAMIC 7 & 9 .50
SHIELDS FOR MINIATURE TUBE .40

GIANT 4 CONTACT CERAMIC FOR 211/VT-4C, 872 ETC.
GE#ML7461594-G1 USED .49
GIANT 4 CONTACT CERAMIC FOR 715,718 ETC. JOHNSON 234 TYPE STK.#2Z7684.98 UNUSED $1.25
CERAMIC FOR 829 ETC. used 1.25
" " 832 ETC. used 1.25
CERAMIC for 811/866 used $1.50
CERAMIC f/813, #122-237 NEW $5.

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JOHNSON CERAMIC SOCKETS, unused
#214 for 750TL/1500T etc $2.
#244 for 8008 etc. $2.00
#247 for 829B, 7094 $2.00
EIMAC SK-113 GETTER CLAMP f/4" dia tube base NEW $45
#122-101-207 for 826/829/832/4D32; VHF septar, $3.25

#124-0113 SCREEN GRID BYPASS for 4X150/4CX250; 2000 pf, $3.

TERMINAL BLOCKS--TELEPHONE TYPE

#TT4X10F4A, 4 rows ten terminals each; total 40. Size: 3⅛x3x2; unused $4.25
WE 4x10, used $2.25
#660069, 3 rows 26 removable terminals; 78 total. 7x2⅛x3 $4.50

WE 2-rows 25-term; used $2.
4E9865 40-term, flat mt. $2.

879-9661 3 rows of 30 terminals one side wire wrap. size 8-7/8x2-3/4x1-3/4 $3.50

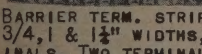
AIRCRAFT STYLE TERMINAL STRIPS
AN-3436-2-6 6 term. 4x7/8x11/16 6-32 studs on 19/32 centers .55

AN-3436-2-9 9 term 6x7/8x11/16 6-32 studs on 19/32 centers .75

AN-3436-4-10/10 term. 7-7/8x1x1 10-32 studs on 3/4 centers .80

AN-3436-4-16/10 term. 12⅛x1x1 10-32 studs on 3/4 centers $1.25

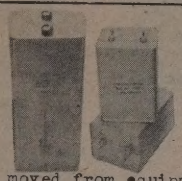
5BK-22 BOX Consists of 3 AN-3436 terminal strips 13 term. each & 2 AN-3436-9 term. ea. The 10/32 studs extend thru. the phenolic board and have solder terminals. Board size 5⅛x8½x2; 4lbs $2.75



TERMINAL STRIPS WITH CLIPPED WIRE
BARRIER TERM. STRIPS AVAILABLE, 3/4,1 & 1½" WIDTHS, 2 TO 16 TERMINALS. TWO TERMINAL 20¢,EA. EACH ADDITIONAL TERMINAL 3¢. WE WILL SHIP CLOSEST TO YOUR ORDER.

HEAVY DUTY TERMINAL STRIPS.
APPROX.2"WX1½D.
6 TERM. 4½LG $1.50 12 TERM. WITH
8 " 6 " 2.00 SCREW DOWN
12 " 8½ " 3.00 HOLDER TYPE $4

Capacitors



3500 VDC 53.3 MFD, 10⅛x4⅛x3½; 11 lbs sh. #4W3081, NEW, $25. 6/$130. Oil capacitors, removed from equipment:

MFD	VDC	SIZE	PRICE
4	400	2⅛x4x1	$.75
2	600	2⅛x2⅛x1	.75
4	600	3½x2⅛x1½	.95
6	600	4⅛x2⅛x1½	1.20
7	600	4x4x2	1.35
10	600	5½x3⅛x1½	1.65
1.5	1000	4x1⅝x1	.85
2	1000	4x1⅝x1	.95
4	1000	4⅛x2⅛x1½	1.35
10	1000	5½x3⅝x1⅛	2.50
2	1500	4x2⅛x1½	1.15
4	1500	4⅛x3⅛x1½	1.95
8	1500	5⅛x3½x2⅛	3.00
10	1500	5⅛x3⅛x3	4.00
4	2000	5x3½x2½	4.00
12	2000	7x4⅛x3½	12.00
0.6	3000	6x2⅛x1½	1.25
1	3000	4⅛x3⅛x2½	1.25
2	3000	5⅛x3⅛x3½	2.00
0.84	4000	5½x3⅛x1⅝	2.25
2	4000	7⅛x4⅛x3⅛	4.75
3	4000	9½x4⅛x3⅛	7.50
2x0.1	4500	5⅛x3⅛x1⅛	1.50
0.65	12500	14x8x4	12.00
0.75	20000	16⅛x16⅛x4⅛	$22

COMPUTER GRADE

MFD	VDC	SIZE	PRICE
24000	3	4x3	$.75
23000	7	5½x1⅛	.60
	Bank of five		2.25
61000	10	4x2⅛	1.50
150000	10	5⅛x3	3.25
28000	15	4⅛x2	2.00**
73000	15	4⅛x3	3.00
5200	20	3⅛x1-3/8	1.25**
40000	20	4⅛x2⅛	2.75**
52000	20	6x3	2.85**
18000	25	4⅛x2	2.00**
16500	30	4⅛x3	2.00
25000	30	4⅛x3	2.25
54000	30	6x3	4.00
18000	35	4x3	2.50
25000	35	4x2⅛	2.75
37500	35	6x3	3.75
9400	40	4⅛x1⅝	2.00
51000	40	5⅛x2⅛	4.15**
51000	40	4⅛x3	4.25**
76000	40	5⅛x3	4.75
1000	50	3⅛x1⅛	1.20**
23200	50	4x3	3.25**
3500	55	4x3	2.00**
20000	55	5⅛x3	3.25**
58000	20	6x3	2.20**
22000	75	5x3	5.25
950	75	4x3	2.00
15600	75	4⅛x2⅛	4.50
16800	75	4⅛x2⅛	4.75
1400	99	4x2 dents	1.00**
2700	300	5⅛x2⅛	5.00
900	165	4x2 dents	1.00**
1250	180	4⅛x2⅛	3.00**
500	200	4x2 NEW	2.25
500	200	5⅛x3	1.00**
1700	200	5⅛x3	3.80
1000	350	5⅛x3	3.75
5200	200	6x3	7.50

** marked, take 25% OFF.

BUY 5 COMPUTER GRADES of SAME rating, take 20% off.

PHOTO FLASH TYPE, 600 mfd 360 VDC, 3⅛x1 $2.25 5/$10.

MICA CAPACITORS used in RF power circuits.	MFD	WVDC	CM
	.01	600	55
	.02	600	55
	.022	1200	60
JAN CM-size less than 1⅛x1-3/8 $1.25; 5/$5.	.0004	2500	55
	.006	2500	55
	.016	2500	60
	.35 pf	3500	55
	.01	1200	45

COMPUTER GRADE ASSORTMENT, 10 capacitors in ranges 5-30 VDC 1K-50K mfd; takeouts Approx 10 lbs, ~~$5.00~~ $4.00

ROTARY SWITCHES

1-POLE 17-POSITION, 2¼" dia bakelite; 3/8x¼" dia shaft. CRL #PA3001 NEW $1.95; 2/$3

ROTARY SWITCH, 2-DECK. ONE 4PDT MOMENTARY BOTH SIDES; OTHER 2PDT MOM. B.S. AND 1PST MOM. 1-3/8" DIA.; CERAMIC. #3Z9825-20, $1.00

MINI-ROTARY, 1-pole 3-pos. shorting. 1" dia; 1/8" dia shaft. No hardware. #LED-M13-S, unused, 75¢

THUMB-WHEEL WAFER SWITCH, 18 POSITION, NUMBERED, 2 HOLE MTG. HORIZONTAL OR VERTICAL, 2⅝x3/8" # 960 NEW $1.25
SAME AS ABOVE 10 POSITION 2½x3/8" #980 NEW $ .75

2-DECK 5-POS w/OFF-ON switch 2/SPST 8 A 125 V. 2⅛x 1⅛, ¼" d shft. #2D5PSW $3.

MALLORY NON-SHORTING TYPES: #3254J 3-circuit 4-pos $1. #3243J 4-okt, 3-pos., $1.10

2-DIGIT THUMB SWITCH 00 to 39; can be modified to 99 but one digit has 1-pole 10 pos wafer, other binary code output. Digitran Serie 23000; 1x1½x1⅛. NEW $1.75

Rotary switch one deck 17-position, one tie deck. 1½" x1. silver pl. SW-249 $2

1-POLE 12-POS non-shorting; 1¼" dia X 2" lg shaft. Mallory #32112J NEW $1.25

DAVEN SWITCH

18-POSITION, CONTINUOUS TURN, 2" dia. Zinc-silver contacts. ⅝x½" dia shft. #3Z9825-92.2 Unused, $3.00

Miniture tap switch 1 pole 7-position rated 1 amp. 1x⅝". Grayhill 7 pos. $2.00

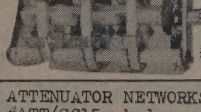
CERAMIC TWO DECK, 1-pole 4-position/deck (90 throws); 2x½" dia shaft, 1⅝" dia wafers. #83-2-1P4P, $1.75

Ceramic 5 pole 3-position, 2 deck rotary 2"x1½". used Re-moved S-602/13 $1.50

Ceramic 1 pole 12-position rotary sw. 1½" dia. w/stop. re-moved S-601/13 $2.00

3-DECK 1-POLE 11-POSITION/deck; 1-3/8" dia bakelite wafers, ¼" dia shaft. #5930-544-2513, unused, $2.95

DUAL CONTROL SWITCH, ¼" dia outer shaft switches 1-pole 4-position rotary; 1/8" dia inner shaft adjusts 50K ohm pot w/on-off. #3540 NEW $2.



ANTENNA CIRCUIT SWITCH 100 WATT 3/MAKE 3/BREAK SIZE: 4⅛x2⅝ IN. #3Z9626 $2.50

ATTENUATOR NETWORKS #ATT/SG15, balanced "H" 600/600 ohm; 0-70 db, eight steps. Used $8. #T-4095, "T" 600/600 ohm 0-50 db, 1 db/step. $12.

Parts Kits

DISC CERAMIC CONDENSERS 33 ASST. 15MMF-.01MFD. Good Value $1.25 a KIT

HARDWARE ASSORTMENT from electronic equipment such as washers, screws, rivets, nuts, terminals; 2 lbs $2.00

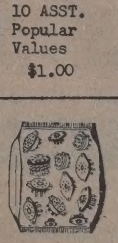
MICA CONDENSERS 25 ASST. 10 MMFD To 6800 MMFD. $1.00 a KIT

TRIMMER CONDENSERS 25 ASST. 3 to 280MMF WIDE RANGE $1.00 KIT.

PRECISION RESISTORS 25 asst. on boards. Carbon or wire wound 1%. $1.50/kit

RESISTORS WIREWOUND 25 ASST.
5 to 20 Watt. Wide range of values some tapped. 25 ASST $1.00

VOLUME CONTROLS 10 ASST. Popular Values $1.00



TUBE SOCKETS 20 ASST. Octals Loctals Minatures Wafers etc $1.00

PILOT LIGHT SOCKETS 25 ASST Bayonet Screw etc. $1.00

TERMINAL STRIPS, Tie lug strips, ASST types. 25 for $1.00

TERMINAL LUGS, ring spade, crimp types. Wide variety of sizes for all uses in plastic box, APPROX. 200 PCS. $2.00

ROTARY WAFER SWITCH six different types Multi-decks and contacts $1.25

BATHTUB CONDENSERS KIT .1 to 1 mfd up to 600 VDC. Various types 10/$1.

MORE CAPACITORS
Polystrene 100/$15:
.01 uf 200 V, 4/$1.
.009 uf 500 V, 4/$1
Mylar types:
.022 uf 100 V, 4/$1
0.33 uf 400 V, 5/$2.

AC CAPACITORS

MFD	VAC	SIZE	PRICE
4	220	4½x1½x1	$1.00
14	220	4x2x1¼	2.25
47-58	220	4½x2 dia	2.25
3.9	330	4x2x1	1.00
4	330	6x2½ dia	1.00
7	330	3⅝x3⅛x1½	1.35
17.5	330	5½x2⅛x1½	2.50
12.5	360	4-3/8x2½x2	2.00
2	440	2x2x1½	1.00
25	440	6½x3½x2	4.00
48	480	10½x4½x3⅝	8.00
21	525	6½x3⅝x1¾	4.00
18	600	4½x4⅛x2¼	4.00
4	660	3½x3x2	1.25
6	660	5x3⅛x1⅝	1.50
12	330	5x2" dia	2.00
1.3	950	5½x4x1¼	3/1.00
.05	2500	2⅝x2x1¼	.65
1.3	4000	8½x4⅛x3¼	4.00

ELECTROLYTIC (E)/PAPER (P)

6800uf 16 V axial (E) 4/$1
450 uf 25 VDC (E) 50¢ 5/$2
1000 uf 25 V axial (E) 50¢
1500 uf 63 V axial (E) 75¢
50-30 uf 150 V (P), 2/$1.
50-50 uf 150 V (E), 45¢
80-40-20 uf 150 V (P) 2/$1
250uf 150 V axial (E) 2/$1
25-25 uf 200 V (E), 45¢
60 uf 250 VDC axial (P) 50¢
160 uf 250 VDC (P), $1.10
160-240-240 uf 200 V $1.65
140 uf 300 V axial (P) 85¢
50 uf 350 V axial (P) 65¢
100 uf 450 V axial, $1.50
30 to 40 uf 500 V (P) $1.25
0.01 uf 7500 V (E), $3.50

160-240-240-5 mf 200 VDC case ground; (E), $1.00

1 KV DISCS: 7/$1. 10/$6.
UF: .0001 .0002 .002
3 KV DISCS: 5/$1. 10/$12.
UF: .00009

TANTALUMS, 35 VDC PCB-type
4.7 or 6.8 uf 4/$1 10/$20
40 uf 25 V, 2x3/8, 2/$1.
47 uf 20 V, ⅝x½, 45¢
20 uf 50 V, 1⅛x3/8, 2/$1.

RESISTORS

3/5 W, 20¢ EA; 10/25 W, 30¢

0.33 Ohm	11	watt	WW Dale
0.5 "	10	"	"
2.0 "	10	"	"
2.43 "	3	"	"
10 "	8	"	" 30¢
24 "	5	"	"
70 "	5	"	"
100 "	5	"	"

BLEEDER RESISTORS

3900 "	25	"	, FERRULE
1000 "	25	"	, WW
15K "	10	"	, "
15K "	3	"	, "
100K "	3	"	, CERAMIC

1.6 OHM 220 W, 5%, $1.50
0.05 " 105 W, 5%, 4x1, $1.

PRECISION RESISTORS
5K OHMS ½ WATT, 0.1%, 60¢
7.5K OHMS, 0.333 WATT, 0.25%, WIREWOUND, 40¢ EA.
28K OHMS ½ WATT, 0.05%, WIREWOUND, 40¢ EA.
55 MEGOHMS, 10 WATT, 1%, DALE WIREWOUND, $1.00 EA.

DALE PRECISION POWER RES.
100 WATT (3½x3x1¼) IN VALUES:
450Ω(1%), 1400Ω(1%), $2.50
250 WATT (4½x3x2½) IN VALUES 600Ω(1%), $3.00

25 OHMS 100 W 5% Dale $1.50
1 OHM 130 W, 5% Dale, $2.25
6.8 OHMS 220 W, 10%, $1.75

260 ohms 5 watt 1%, 3/$1.
4K ohms 3 watt, 1% 2/$1.00
5K ohms 100 W, 6½x1¼ $1.25
75 ohms 50 W, 5%, 4x5/8 $1.

SLIDER VARIABLE WW RESISTOR
15 ohm 35 watt, 10%, $1.00
10 ohm 75 watt Ohmite $1.50

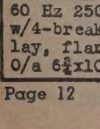
MINIMUM ORDER $5.00

HIGH VOLTAGE TRANSFORMERS

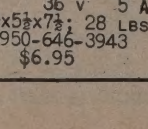
PRI	HZ	SECONDARY	SIZE	WT	STOCK #	PRICE
117v	60Hz	375v 40MA 2/6.3 .6A	2⅝x4x2⅜	4LB	#24003	$3.95
105/115/125		780 VCT 65 ma 5	5½x4½	15	#A3499	$5.95
200/225/250	60 Hz	6.3 VCT 4 A, 5 V 2 A				
115	60	350 CT/26 MA 5/3.0 A	2⅝x3½x3	4	647-6762	3.95
115	60	1470 VCT 126 ma (2640 MWV), 6.3 V 2.5 A, 6.3 V 0.4 A.	5x6⅝x4½	16	#556-9885	$14.95
115/230	60	750 VCT 110 ma 6.3 V 3.6 A, 5 V 2 A	4½x5½x4½	9	TF1A03YY/ SC15	7.95
115	60	110v100MA,50VCT .5A,25VCT,.15A. 14VCT 2.5A.	4½x3⅝x3½	10	KAL#2334	6.95
115	60	600 VCT 60 ma 6.3 V 1.5 amps	2⅝x4x2½	5 lbs	#1831	5.95
115	50-400 Hz	550 VCT 12 ma 60 VCT 300 ma 6.3 V 600 ma	2⅝x4x2½	5 lbs	#37711	5.95
108/115/121 VAC 60 Hz		700 VCT 50 ma 5 V 2 A, 6.3 VCT 3.5 A	3½x5x3½	11 lbs	#12314	5.95
115	60	820 VCT 120 ma 5 V 2 amps	4½x4½x4	10	#7629831	6.95
115	60	1000 VCT 220 ma 2.5 VCT 3 A (1750 V insul)	5x4⅝x4	20	#T1/610	$10.95
120	60	6.4/1A 3/6.4 .3A	2½x3x2	1	645-0612	2.25
115/60Hz		360VTAPS/7/332/346v.125MA 6.6VCT 4.2A	4x5x3¼;	12LBS.	#7489394	$3.95
115/230 60 or 50.8 V 95 Hz vibrator input		175 V 85 ma	2¾x4½x2½	5	#2Z9612-382	4.95
115/230	60	1475 VCT 500 ma 1070 WV, 6.4 V 14 A, 5 V 5 A, 19 V 1 A	5¼x4½x7	32	#TED-5694	$22.
115/60Hz		700VCT .050A 5v3A	4⅛x3⅝x3;	9 LBS	#TF1A03Y	$3.95
115 V 60 Hz		650 VCT 20 MA; 6.3 VCT 2.5 A.	3⅝x2⅜x4½,	10	#8734,	$2.95
115	60	6760 V 60 ma (25 KV test, insulators 3½" high)	11½x8x6	35	#1000A-358	$25.
115v 60hz		110v @ 30ma 6.3 @ 3.2a.	3½x2½x2½	31 lbs	#5569	$3.95
115	60	2000 VCT 500 ma	7x5⅛x5	32	#HW-201P	32.50
115/230 50/60 CY		660CT@60MA 6.3 @ 5 A (FOR TG-34 KEYER)	RD3½x4½	8	2Z9608-110	5.95
115	60	700 VCT 70 ma 6.3 VCT 3 A, 5 V 3 amp.	4x3⅝x4	6	#T52960	$5.95
208/230		940 VCT 600 ma	7x8½x6	39	#234-0035	$14.95

LOW VOLTAGE TRANSFORMERS

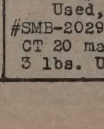
PRI	HZ	SECONDARY	SIZE	WT	STOCK #	PRICE
115v	60Hz	6v/1A 45VCT/.5A	3x2½x2⅛	2LB	#1461312	$2.95
115/230	60	12.6 VCT 1.5 A	2½x2⅛x3	3	#519-8787	$3.95
115v 60hz		6.3v@15a/two 6.3v@.6/two-5@6a./5@2/5@3	5½x4x3½	11 lbs	#4094	$20.00
115	60	27 V 4.3 amp, 2.6 V 3 A, 4.1/5/6.3 VCT 3 amp	5x5x5	15#	D161915	9.95
117v	60hz	55v @ 60ma	3½x2½x2½	4lb	5950-8419	$2.95
115	60	2/5 V 3 amp	4½x4x2⅝	5	#2-5V3A	$4.50
115v	60hz	6.5vct@24a/ 6.5vct@1a/two 6.5vct@6a	6x5x4½	20 "	647-6219	$9.95
220v	60hz	2.5vct@ 5vct @ 3a	4½x3½x3½	9	THER-8708	$3.95
115	60	6.5 VCT 11 A, 6.3 VCT 6.2 A, 5.2 VCT 4.4 A, 6.5 V 7.8 A	4⅝x6x3⅝	16	#FT2550	$8.95
115	60	24 VCT 50 VA	2⅝x3x2	3	#BE11269001	$5.50
115	50-400	34/2.7 A 3.0/250 MA	4⅝x4⅝x4	14	853-6026	$4.50
115	50/60	5 @ 1.5 A 5 @ 1.0 A	RD.4x2½	6	869-2849	$4.95
120v 6		3/6.3VCT .6A	2½x3½x2½	1LB	TF1A01YY	$2.95
115	60	2.5 V 10 A 10 KV insl	4½x3½x5	8	#2Z9611.144	$3
117	60	31v@3.27A,15.5v 24v @ .85 A.	3⅝x4½x4½	10	5950-9195	$3.95
215 V 60 Hz		2.5 VCT 10 A.;	4½x3⅝x3⅝,	12,	#2253	$2.95



AUTOTRANSFORMER, UTC #R-44 220/240 V to 110/120 V 50/60 Hz 250W on box w/4-breakers, relay, flange mount. O/a 6½x10x4½, $9.



PRI: 115 V 60CYC SEC: 850CT 280MA 280CT 10MA 5 V 5 A. 6.3 V 600MA 36 V 5 A. 5½x5½x7½; 28 LBS. #5950-646-3943 $6.95



115 VAC 60 Hz PRIMARY Sec: 512 VCT 90 MA 3x3½x2½ 4 lbs. #SMB-202958 Used, $4.50 #SMB-202912, 448 V CT 20 ma; 2x3½x2½ 3 lbs. Used $2.50

Pri: 115 VAC 60 Hz Sec: 375 VCT 90 ma 2.5 V 10 amps 5 V 2 amps 6.3 VCT 10 A 2.5 V 10 amps 5x4½x3½, 10 lbs sh #TF1RX03YY/141 $7.

Pri:115v50/60hz Sec:1860vct @ 130 ma. 1500 wv 5½x4½x4½; 18 lb SMB202-909 $15

Pri:115v50/60hz Sec: 2340 vct @ 245 ma. 3940 wv 350 v. @ .016a. 7½x5x6½; 35 lbs. SMB202-907 $20

Pri: 115 V 60 Hz Sec: 1120 VCT 400 ma, 950 VCT 150 ma. 6½x5½x8, 38 lbs. #TRC-29/ SMB-20291 $16.95

POWER SUPPLY TYPE 115 VAC 60 Hz primaries Unused

#BE12696: 18 V 1.5 amp, 19 V 2.5 A, 10 V 4 A; 3x4x3½, 7 lbs sh. $4.95 10 for $45.00

#PT-09: 48 VCT 2.5 amps; 3½x3½x3, 6 lbs sh. $5.95

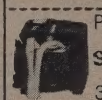
#PT-1602: 78 VCT 3 A; 3½x4½x3⅝, 10 lb $6.95 ea; 10/$64.

#TRA-1577: 15 VCT 3 amp, 5 V 1 A. 2½x3 x2½, 4 lbs. $3.95

#EMC-56: 50 VCT 3A 3½x3⅝x3½, 8 lbs. $5.95 ea; 10/$54.

10V. 75 A

Pri: 220 VAC 60HZ Sec: 10 VCT 75A. Requires 6 mfd capacitor 660 AC 6½x4½x5½; 24 lbs. #NE6114781 $18.95



PRI: 115v 60 CYC SEC: 2 v. 30 AMP 3x3x4; 4LB 5950-829-8618 $2.95

FOR RA-62 RECTIF. USED TO POWER SCR-522 REC-TRANS PRI:110/220 VOLT 40-60 CYCLE SEC: DC VOLTAGES 300 @ 230 MA BIAS 50 @ 8 " 13.4 @ 3.9 A. 6x5½x8; 30 LBS. #3340-296-862-192 PRICE: $7.95

ART-13 MODULATION

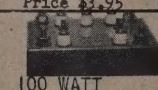
ART-13 MODULATION TRANSFORMER 50 WATT 300-4000 RESPONSE ± 2DB, PRI. TO SEC. 1; 1/.695, PRI. TO SEC. 2, 1/.254, Z PRI. 15000 Z SEC. 1 7300, TEST 4000 v. 4½x3½x2⅝; 4 LBS. COLLINS#677N252 RE-MOVED $3.95

PRI: 115 v. 50/60 SEC: 3/17 v. 5 AMP 28 v. 10 " WITH CAPACITOR REQ. VENTILATION 4½x5½x7½; 20 LBS. GE- 9T91A4074 $11.95

PRI: 115 v. 50/60 SEC: 100 VCT 1.5A 20 " 3.0A 2/20 v. 3.0A 35 v. 5.0A WITH CAPACITOR GE-9T91A4069 REQ. VENTILATION 5¼x6x7½; 23 LBS. $7.95

Pri: 115/230 VAC 50-60 Hz Sec: (12 V 14 A. by wiring 12 V secondaries in parallel) or 12 V 9 A, 12 V 3.2 A, 12 V 2 amps; also 44 V 2.5 amps. 5½x4½x4½; 22 lbs #P-601719, $7.95

MODULATION TRANSFORMER 100 Watt RESPONSE 200 to 5000 PRI: 7000 SEC: 7000 F/BC-191/375 TRANS. Size 3x4x5 WT. 5½ lbs. Stock # 2c6191/T1 Price $3.95



100 WATT MODULATION TRANSFORMER PRI: 7500 OHM CT 30,000 " SEC:3000 OHM 35W 200 MADC 600 CT. 1 W RMS TEST 1,2,3 500 v. OTHERS 2500 v. 200-3500 CPS. 4½x4½x4½; 11LBS #5950-646-3092 PRICE: $4.95

FAIR XK-108 XFORMER

Pri: 115 VAC 60 Hz 500 VCT 80 ma 24 VCT 2 amps 6.3 V 3 amps 2½x3½x2½, 4 lbs sh

Made for ARC-5, ARC-type 12, BC-639, R-174, & other receivers. NEW $12.95

TRANSFORMERS LISTED BELOW HAVE 115 VOLT 60 HZ PRIMARIES UNLESS OTHERWISE STATED

Sec: 18 V 5.4 A, 26 V 1 A, 6 V 900 ma, 25 V 500 ma, 35-10-0-10-35 V 5 A. 4½x4⅝x4, 16 lb #401-21 unused $8.95

SEC:40v 2.5a/6.3v 1.5A 3⅝x3½x5½; 10 LBS. #43278 $4.95

Sec: 250 V tapped 50 V 120 ma, 4 KV test. 4x6½x3½, 9 lbs sh. #BP-18587 used $6.95

Sec: 30 vct 560 ma 40 vct 450 ma 2⅝x2½x2; 2 lbs. #401-6 $3.00

SEC: 450 VCT 250 MA. 40 VCT 1 A. 2/6v 1A. SIZE:3⅝x3½x4½; 9 LBS. URC#702-704-00 $6.95

SEC:50v@100MA/3v@100 MA/40v@1.5A/40v@200MA SIZE:2½x2⅝x2½; 2⅝ LB. URC#372993-1 $3.95

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22 VCT 75 A

PRI: 115 VAC 60 Hz SEC: 22 VCT 75 AMPS 5⅝x6⅝x6½; SH WT: 46 LBS. #NCR8318001, $40.00

Pri: 115 VAC 60 Hz Sec: 32 VAC 4 amps Suitable for 24 VDC regulated supply. 3½x3⅝x3, 5 lb #4892-83 NEW $4.95

CHARGER TRANSFORMER, 230 VAC 60 Hz primary with 8-taps to produce 12 to 40 VCT 50 A secondary; usable on 115 VAC input with reduced output. 5½x6⅛x6½, 33 lbs. #XJ-885/240 $32.

Pri: 115 VAC 60 Hz Sec: 24 VCT 50 amps 5½x6⅛x5½, 28 lbs sh. #RAY3001, NEW, $36.95

Pri: 115/120/125 VAC 60 Hz 1 Ø Sec: 24 VCT 35 AMPS 5½x5x4, 19 lbs sh wt. Wabash #4429 NEW $30.

Pri: 115/230 VAC 60 Hz Sec: 30 V 4 amps, 11 V 4 A, 20 V .5 A 3½x5½x3½, 8 lbs.

XK-190 $8.

PRI: 115 VOLT 60 HZ. SEC: 130 VCT @ 200 MA SIZE:3⅝x2½x2½; 2 LB. URC#8316423 $2.50

Sec: 26.8 vct 1 A. 2⅝x 2x2½, 2 lb. #401-17 $3.

Pri: 210-250 v. 50/60 Sec:13.7 v. @ 1 amp. 6.3vct @ 4.75 amp 4½x3½x3½; 10lb 229600-84 $10.00

Pri: 220/220 VAC 60Hz Sec: 260 VCT 200 VA 4½x4x6, 17 lbs sh wt. #8034, unused, $9.95

Sec: 175 VCT 100 MA. 75VCT 200 MA. 80 VCT 100 MA. & 5 V. 200 MA. SIZE:3x2½x2⅝; 2 LBS. URC#720660-1 $2.95

Pri: 105/115/125V 60Hz Sec: 285/300/315 V @ 300 ma & @ 150 ma. 4x 6x4⅝ 15 lbs. RA342 $6.

SEC: 40 VCT 1 A. SIZE:3½x1½x2; 1½ LBS. URC#56000 $2.95

SEC: 24@2A/6.3@100MA 24@100MA. SIZE:3½x3x3 4 LB. URC-LT-646 $4.95

SEC: 30 VCT 200 MA. 45 VCT 100 MA/2.5v30MA SIZE:2½x1½x2; 1 LB. URC#374501-1 $2.95

SIGNAL TRANSFORMER Pri: 2/115 VAC 60 Hz Sec: 2/6.4 VCT 12 amp 4½x3½x3⅝, 7 lbs sh. #DL-12.8-12 NEW $14.95

2/28 VCT 8 A

Pri: 2/115 VAC 60 Hz Sec: 2/28 VCT 8 amps. Wire for 56 VCT 8 A, 28 VCT 16 A, or 14 V 32 A. 4½x5½x4½, 17 lbs. Signal #DL56-8, $25.

Sec: 125 V tapped 90 volts 3 amp. 4x4½x3½, 10 lbs. #225-3992, $12

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22 VCT 3 A. 80 VCT 1.5 A.

PRI: 100,115 v. 60 HZ. SEC; 22 VCT @ 3 AMP. 80 VCT @ 1⅛ " SIZE:3⅝x3x4; WT: 8 LBS #3S92890015 $4.95

ISOLATION, 230 V 50/60 Hz to 115 V 435 ma. 3½x4x3 7 lb. #3436 $5.

VIBRATOR TRANSFORMER Pri: 12.6 V 115 Hz Sec: 160 V 160 ma 2-1/8x2⅜x3½, 4 lbs #5950-243-5679, $4.95

Pri: 115 VAC 60 Hz Sec: 460 VCT 50 ma 6.3 VCT 2 amps 3x2½x2½, 4 lb. #7514 $4

Pri: 115 VAC 60 Hz Sec: 32 V 2.5 amps 3½x3x2½, 3 lbs sh. Stancor #S811 used $4.

PRI: 115 VOLT 60 HZ. SEC: 35 VCT @ 1 AMP. 6 V. @ 300 MA. SIZE:2½x2½x3; WT: 3 LB. URC#1341155-2 $2.50

Pri: 115 VAC 60 Hz Sec: 45 VCT 500 ma 6 V 500 ma Size: 3½xx2½x2⅜; 2 lbs. URC#203A6725-10 $2.50

Pri: 115 VAC 60 Hz Sec: 500 VCT 100 ma 6.3 V 1 amp Size: 2½x2½x3, 4 lbs. #URC8316213 $3.95

SEC:500VCT 35MA/24V.9A 6.3V.9A/6.3V .3A/4LBS. 3x3x3½;#RM13-317 $2.95

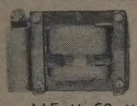
TRANSFORMERS

40 VCT 9 A

22 V 18 A

Pri: 100/115 VAC
Sec: 40 VCT 9 amp, 22 V 18 amps.
5½x6½x6, 32 lbs.
#7213-4112, $15.

As above, but sec 39.8 VCT 8.5 A, 22.7 V 12 amps.
#5602-1500, $12.



PRI: 115 V 60 Hz
SEC: 15 V 3 AMPS; 13 V 2 A; 6.3 V 7 A.
WITH CAPACITOR, 4½x3½x3¼; 13 LBS.
#PV-175-9, $5.95

AUDIO

Pri: 60K/12.5K
Sec: 8/600 ohms 200-3000 Hz 200 MW; 1½x1½x2½, 2 lb. #T14/R174 $4

Pri: 13000 ohm CT
Sec: 25/1000Ω CT 200-35000 Hz; 3x3½x2½, 3 lbs sh. #T2/SG-15, $4.50

Pri: 600 ohms
Sec: 5000 ohms CT 1000-4000 Hz; 1½x1x2½, 3 lbs sh. #2Z9631.248, $3.50

Pri: 250/4000 ohm
Sec: 150, 600Ω CT 400-3000 Hz; 1½x1½x2½, 2 lbs sh. #C-280/RM-39 $3.

Pri: 16000 ohm CT
Sec: 600 ohms CT 1000-4000 Hz; 2½x1 dia. #CV2/T4 $3.50

Pri: 16670/4170/1040 ohms to Sec: 8 ohms. 60-8000 Hz 4.5 W #2Z9637.94, $4.

Pri: 7000 ohms
Sec: 4000 ohms tapped 250 ohms; 200-8000 Hz. 1⅝x2x1¾, 1 lb. #247-9266 $2.

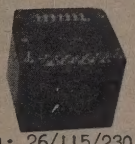
DRIVER/OUTPUT AUDIO, Driver : 5650 ohms CT to secondaries 2.6:1 and 40:1 CT. OUTPUT: 5250 ohms CT to 500 ohms & 4 ohms, 8 W. 2⅜x4½x2⅜, 3 lbs. #T504/CV2, $4.

AUDIO MATCHING

OUTPUT TRANSFORMER
Pri: 5000 ohms .015 adc Sec; 200 & 4 ohm, .1-10 kc -30DBM. 2⅜x2⅜x3 1⅜lbs $3.95
5950-645-1855

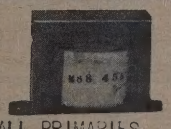
INPUT TRANSFORMER
Pri: 150 ohms CT
Sec: 150,000 ohms
100-8000 Hz 1.5mw
2⅜x1-7/8 dia, 1 lb. #5535, $3.50

1-177
TUBE CHECKER TRANSFORMER
SIZE: 4½x4⅜x4.5 LB
STK.# 2Z96|3.667
PRICE: $4.95



PRI: 26/115/230 V 60 HZ.
SEC: 13 V. 8 AMPS TWO 230V WINDINGS TO SUPPLY 370 VDC 600 MA.
5⅜x5⅜x5; 22 LBS.
2Z9613.514 $7.95

Pri: 115/230v 60hz
Sec: 12/24 V 4/2 A
2⅜x3x2, 2 lbs sh.
Stancor P6377 $5.



ALL PRIMARIES 115 VOLT 60 CYCLE

SEC: 6v, @ 500 MA. 1⅝x1½x1⅜; 3 oz.
URC#1378648 $1.25

Sec: 6.3 v. 1 amp 1⅝x1½x1⅜; 4 oz.
BE16073-001 $1.50

Sec: 6.3 VCT 2 amp 2½x2x1¾, 1 lb.
Stancor P-2945 $3.

SEC: 2/30 v. 250 M 2x1⅝x1⅜; 4 oz.
URC#60605 $1.50

Sec: 6.3 VCT 1.5 A 2x2½x2, 1 lb sh.
#F-16X, NEW $1.95

Sec: 12 V 2 amps 2x2½x1⅝ 1 lb sh.
#37-7622 NEW $2.25

AUDIO BANDPASS
2320 Hz peak, 1285-4200 Hz Band Width; Pri 600/250 ohms
Sec: 120000 ohms
2½x2½x4, 4 lbs sh.
#3Z1892-19, $4.95

MIC TRANSFORMER
Pri: 50 ohms 30 ma
Sec: 500 ohms, 400 to 1900 Hz. 1⅜x1¼x1⅜, 1 lbs sh.
#T204/PP-115 $2.00

Pri: 500 ohms CT
Sec: 500 ohms CT, 600-12000 Hz; 2½x2x2½, 2 lbs sh wt.
#T203/PP-115 $2.00

INPUT TRANSFORMER
Pri: 500 ohms
Sec: 20000 ohms CT 150-3000 Hz 0.4 W
1-5/8x2-3/8x1-5/8, 1 lb. #55C162, $3.

LOW VOLTAGE TRANSFORMERS

ALL PRIMARIES 105/110/115 120/125 VOLTS 60 CYCLE.

SEC: 6.6 v. 18 AMP 3⅜x5½x4; 12 LBS.
GE#9T35Y159 $4.95

Sec: 6.3v 2.75A/6.3 V 5.5A, 2.5 KV test 5½x3½x3 #7629805 $6.

2.5 VCT 10 A, 10 KV insula. 5x3½x3 7 lbs 2Z9621-201 $4.

Sec: 8 V 50 VA; 2⅜x3x2½, 3 lbs. #9861, NEW, $3.95

Sec: 6.3 VCT 3 A 2.5 KV tes 3½x2x2½, 3 lbs. #P-6446 $4.

Sec: 6.3@3.1a/6.3@2.5a/6.3 @.45a/6.3@.30a/2-5.0@2 amp. TF1A01JA $3.95

Pri: 100-130 VAC 60 Hz
Sec: 6.3 V 25 A; 11x5½x5½, 28 lbs. SOLA #302237, $12.

Sec: 6.3 VCT 5 amps 300 WV; 2⅝x3-3/8x2-3/8, 5 lbs sh. #5950-539-6765 NEW $4.95

Sec: 12.5 V 2 amp, 150 V 2 A; 4½x3⅝x4⅝, 13 lbs sh. #773605, unused, $6.96

Sec: 6.5 vct @ 3.4a/6.5vct @ 13.7a/5.2v @ 6.3a/5.2v @ 2.1a. 4½x3⅝x6; 15 lbs.
TRC-SMB-202910 $6.95

Sec: 6.3 VCT 3 A; 3x3x2, 3 lbs sh. #F-18X NEW $2.95

Pri: 210/220/230/240v 60 hz
Sec: 5 VCT 10 amp. Stand of insul:1½". Wilcox 96C Trans 5x4½x5; 10 lb.
2Z9600.42 Kenyo 10694 $10

Pri: 115 VAC 60 Hz
Sec: 850 VCT 225 ma CT grnd 500 VCT 125 ma, 2/5 V 3 A, 6.3 V 2.5 A, 6.3 V 1.25 A, 6.3 V 11 A; 6½x6⅜x5½, 25 lbs. #188-7474, $9.95

PRI: 115 v. 60 HZ.
SEC: 900 VCT 130 MA. 5x5x3½; 13LB. 2Z9612-38 $8

MODULATION

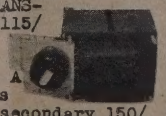
Pri: 8000Ω ct 250 ma; sec 2800Ω ct 300 ma. 200 Hz-20 Khz 120 watts. 8x4½x4½ 30 lbs. #T201/MD-141, $12.

Pri: 21000Ω ct; sec 8000Ω ct 250 ma, 150-3000 Hz 250 W 7 KV test. 7⅜x4½x4, 28 lbs sh. #2Z9633/610, $15.

PLATE TO PLATE, pri 15800Ω 4500Ω 900 ma; sec 7500Ω 535 ma, 400-3000 Hz. 11x8½ x10½ 110 lbs. 568-4831 $36

Pri: 115 VAC 60 Hz
Sec: 6.5 VCT 24 A, 6.5 VCT 6 A, 6.5 VCT 6.5 A, 6.5 VCT 1 A; 6x5x4½, 22 lbs. #5950-647-6219, $14.95

ISOLATION, pri 115/230 V 60 Hz; sec 115 VAC 1 amp 2½x2-5/8x2, 3 lbs. #A762-101, $6.95 ea; 2/$12.00



ISOLATION TRANSFORMER, 110/115/120/210/220 primary;
Sec: 135 V 1 A 6.3 V 5 amps
Switch taps secondary 150/125/100/75/50 V no load from 115 V input. 3½x2⅝x4½, 7 lbs. #P-126M875. $7.95

HIGH VOLTAGE TRANSFORMERS

DC POWER SUPPLY
PRI: 115v 60 cy
SEC: -8000 v. @.25-1 MA.
-120v @ 15 MA
- 24v @ 1.2 A
-16.v @ .45 A
SIZE:4x4x9½; WT: 15 LBS.
#GE9T63Y2280G03 $14.95

Pri: 105/110/115/120/125 VAC 60 Hz
Sec: 1120 VCT 75-MA, 365 V 150 MA tapped @ 535 V
3½x5x3, 8 lbs sh.
#TF1A02JA-R $5.95

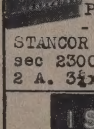
Sec: 2600 V tapped 1600 V 120 ma; 5-7/8x7-3/8x4⅝, 25 lbs sh. #RP18584, $14.95

PRI: 115 VAC 60 Hz
SEC: 900 VCT 250 MA
4½x4½x3⅝; 15 LBS.
#SS-S-P243, $7.95

PRI: 115/230 v. 60 HZ.
SEC: 520 VCT @ 90 MA. 6.3v/1½ A. 6.3VCT 4A.
SIZE:4½x5⅜x3⅜; WT: 7 LBS.
#TB1RX03LB/FGC-29 $5.95
CHOKE FOR ABOVE 10/25 HY. 125/15 MA. 4½x3½x4⅜; 4 LBS
#TF1RX04LB/FGC-29 $5.95

Pri: 115v 60 hz
Sec: 350 vct 25 ma
5.0 3 amp
3⅜x3x2½; 3⅜ lbs
2Z9613.77 $3.95

IGNITION TRANSFORMER
Pri: 115 VAC 60 Hz
Sec: 7000 V 3.75 ma
4x5x4½, 6⅝" mtg; 10 lb
#9T63Y3068G4 used $8.



Pri: 115/230 V 60 Hz
Sec: 920 VCT 100 ma 4/6.3 V 8 amps, 5 V 6 A, 5 V 2 amps
5x5x6, 20 lbs sh.
Paeco #910-96R $12.

STANCOR P8151: 115 V 60 Hz sec 2300 V 5 ma, 2/2.5 V 2 A. 3½x4½x3½, 8 lbs $7.95

ISOLATION

DUAL PRIMARY, each 100/110/120 VAC 60 Hz; can be wired for 200/220/240 V input. Secondary 120 V 1.1 amp tapped 100 V 1 A; 8 V 2 A -0-8 V 1 A; and 16 V 1.5 A -0-16 V 1 A. Mounted on board w/AC soc ket, fused secondaries, diagram. Xformer 5½x4½x4, 20 lbs sh. #97313, NEW: $12.95 each; 2/$22.00

2250 VCT (1750 V working) from
565 MA 115/230 VAC 60 Hz primary
6½x4½x4½, 32 lbs. #TF1UX02YY used $35

2000 VCT 500 MA (1500 V working 700 ma intermittent); 115 VAC 60 Hz primary 7x5½x5, 32 lbs sh. #HW201P used, $30

4800 VCT 475 MA or 5670 VCT 321 ma 7500 WV; 115/230 VAC 60 Hz primary. 9½x10⅝x8½, 110 lbs. #2Z9621/610. $65.00

CONSTANT VOLTAGE TRANSFORMERS; 95 TO 130 VAC 60 Hz PRIMARY; WITH CAPACITORS. SOLA AND OTHER MFGS. REMOVED FROM E-QUIPMENT.

Sec:6.3v@2.38a ac 5½x3⅝x2½; 8lb 581-5333 $5.95

SEC: 24 VDC 5 AMPS
SIZE: 4⅝x3½x5 15LB
#22661-1 $9.95

SEC:25-27VDC 3.5 AMPS; 5x3½x4⅝ 11LB
#22662 $6.95

PRI: 115 V 60 c
SEC: 6.3 V 3.6 A
15 V.004 A
15 V.004 A
SIZE:3x3½x3¾ LBS
STK#ORD7629806
PRICE: $1.50

Sec: 115 V 75 ma, 2.5 V 5A, 6.3 V 6 A, 6.3 V 3 A, 6.3V 1.8 A; 4 KV insulation. 4½x7x6, 12 lbs. BP18585 $8.

STEP-UP/STEP-DOWN XFORMER
Pri: 115 VAC 60 Hz
Sec: 208/220 VAC 150 W; 4½x3½x3⅝ 8 lbs. #SU-SD150 $8.

5030 VCT 500 MA

sec; pri 115 VAC 60 Hz. P/O BC-610E; 12x11x10 115 lbs sh. #2Z9612-1, $67.50

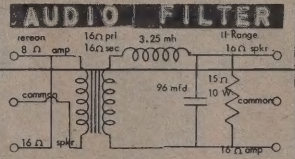
PRI: 2/115 VAC 50-60 Hz.
SEC: 5 VCT 2 A; 5 VCT 4 A; 6 VCT 3.5 A; 115 V RMS 600 MA.
SIZE: 4½x4½x3⅜; WT: 15 LBS.
#89-G-2730, USED, $4.95

TRANSFORMERS

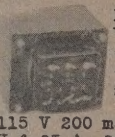
COMMERCIAL GRADE TRANSFORMERS suitable for constructing DC regulated power supplies or other. All 115 VAC 60 Hz primaries; end bell style with wire leads. NEW:

#701-145, 36 VCT 4 amps, 5 V 1 amp; 3⅜x3⅛x3, 5 lbs sh wt. $6.95
#TS-465, 44 VCT 3.5 amp, 30 VCT 1.2 A, 9 V 1 A; 4x3⅛x3½, 7 lbs. $5.75
#701-221, 46 VCT 3.5 amps, 7.5 V 2 A; 4x3⅛x3½, 6 lbs sh. $5.95
#TA-600, 48 VCT 3.75 amps, 48 VCT 1 A; 4½x3⅛x3⅝, 8 lbs sh. $5.85
#701-129, 50 VCT 2 amps, 6 V 2 A; 3⅝x3⅛x3, 5 lbs sh. $4.95
#701-206, 115/230 VAC primary; secondary two 55 VCT 3 A; 4⅝x4½x3½, 10 lb
#701-203, 55 VCT 4.5 amps, 7 V 2 A; 4x4x3½, 10 lbs sh. $7.95
#701-205, 2/55 VCT 4 A; 4½x4½x4 10 lb. $9.95
#701-206, 115/230 VAC primary, secondary two 55 VCT 3 A; 4½x4½x3½, 10 lb. $9.50

AUDIO FILTER



ELECTRO-VOICE FILTER EVXX3 is an audio frequency filter which connects two audio amps to two speaker systems. Bass frequencies below 300 Hz are passed to one side of the system and higher frequencies are passed without change to both systems. Eliminates need for two full range systems. 5½x4½x5½, 8 lbs. Unused, original-boxed $4. W/water damaged case $2.50



Pri 115 VAC 47-63 Hz all; #115-2054, 115 V 200 ma, 6.3 V 6.25 A; 2½x3½x3 5 lbs sh., $4.95
#435-2054, 435 V 370 ma; 2½x3½x3½ 8 lbs sh, $7.95
#1000-2054, 869/930/1000 V 300 ma; 3½x4½x4¼, 14 lbs sh., $11.95

Pri: 115 V 60 Hz
Sec: 900 VCT 160 ma; 4½x5x3½, 8 lbs. #74618 $7.95

Pri: 115 V 60 Hz
Sec: 900 VCT 84 ma; 5x3⅝x4½, 12 lbs. #746-7167 $4

Pri: 117 v. 60hz
Sec:1250V. 2madc 4.6kVDC TEST
2.5 V. 2.1 A
2.5 V.1.75 A.
4½x3½x3; 10 lbs
#3340*11866 $7

PLUG-IN TRANSFORM
PRI:115v 60HZ
SEC:24v 20VA
2⅜x2x2; 2LB.
BE#8002 $1.50

PRI:115v 50-133CY
SEC:20 VOLT LOAD OR 12.5v @ 2 AMPS MOUNTED ON 4" RD. ELECT. BOX COVER 3x3x2½; 2 LBS.
#FR-24960 $1.25

CHOKES

10 HY 500 ma 43 ohm 1000 WV 5½x5x6 24 lbs. SMB202916 $9.

10 HY @ 225 ma 78 ohm 500v 4⅛x3x5; 12 lb #SC26009 $6

4 HY 650 ma 25 ohm 1.07 kv 6½x5x4¼ 20 lb GE7485547 $9

10 HY 150 ma 130 ohm 1680wv 2⅜x2⅜x5; 5 lb SMB-20291S $4.

2 HY 100 ma 100 ohms 2 KV test; 2x1½x1¾ #T56379 $2.00

6 HY 250 ma 105 ohms 2 KV-T 4½x3⅜x3, 8 lbs. L123/610 $6

7 HY 200 ma 140 ohms; 3x3¾ x2⅜, 5 lbs. Kenyon T152, $5

4 HY 550 MA 40 ohms $4.95 3⅜x4¼x4; 7 lb Paeco 911-39

4 HY 250 MA 60 ohms 3000VT 3¼x2⅜x3½;7 lb C-1412 $3.95

4 HY 400 ma 70 ohms 450 Vrms; 3¼x3¾x3, 6 lbs. #SMD-422-745 $4.

4 HY 300 ma 70 ohms 1000 V-rms; 3¼x3¾x3 #SMD422768 $4.

1 HY 700 ma 11 ohms 1K WV; 5⅜x3x3¼, 9 lbs. L101/141 $5

2 HY 700 ma 23 ohms 1K WV; 5⅜x3x3¼, 9 lbs. L201/141 $4

10-22 HY 40 ma max 1600 V-rms; 2¾x1⅝x1⅝ 3C570-7 $3.00

125 mHY 1 amp 1.8 ohms 500 Vrms; 3x2¼ dia 3C315-41 $4

10 HY. 100MA. 263 OHM. 3⅝x 3x2½; 3LB. #228-1859 $3.25

12 HY 80 MA 375 ohm $1.50 3x2x2;2 lbs. SK1N20C53

150 MA AVAILABLE VARIOUS HY TELL US YOUR NEED.

3 HY 350 MA 30 2K PV; 3¼x 4½x2½, 6 lb. L-225/PP115 $3

3.5 HY 200 ma 90 V 1 KVRMS 3¼x4½x3, 4 lbs. #7629828 $3

TUNED REACTOR, 210 mHY 1 A choke in circuit with 8 mf and 4 mf capacitors; switch selects 50 or 60 Hz operation. 1.5 ohms max DC res. 4½x6x4½ 10 lbs. USG3416 $8.

PRI: 60 V 60 Hz. SEC: 2130 V 16 ma, 112 V 4 ma. 4½x6 x4½, 10 lbs. #HA131P $8.95

10,000 VOLT

AMP P/N 845321-3 PRI:115v 60HZ. SEC: 10,000VAC|00MA 5x5x4; 10LBS. $20

SCOPE XFORMERS

ACE HV POWER SUPPLY as on page 10; 3000 VDC 50 ua output from 115 VAC 60 Hz input. Includes 2/1B3 tubes 6x7x2, 8 lbs sh wt. Unused. #ACE-HV3000, $5.95 2/$10.

PRI: 112/117/122v. 60 HZ. SEC: 228v @ 15 MA. 360v @ 125 MA. TAPPED @7v/332/346 6.6 v. 4.2 AMP. 5x3¾x3¼; 8LB.2Z9613-869 $5

HV OSCILLATOR TRANSFORMER f/HP-160 & USM-105A scopes; used with 50 Khz 6AQ5 oscillator. Two HV windings approx 5000 V each. 2¼x2⅜ x2¼, 2 lb. #3862 NEW $35.

PRI: 115/230 VOLT SEC: 54.4VCT 2.5A 37.5VCT 7.8A

6⅜x5½x4½; 20 LBS. SCHOTT TY4RX020A $12.95

PRI: 117v 50/60 SEC: 6500VCT 65MADC, 4350WV 5⅜x6½x7½; 35LBS 539-6504 $25.00

HIGH CURRENT CHOKES

#6220526, 85 mHY 10 amps; 0.49 ohms DC resistance. 4⅜x3⅜x4¼, 15 lbs. $9.95

#6221188, 4 mHY 8.7 amps; 0.083 ohms DC resistance. 4x2⅜x2½, 4 lbs. $4.95

#WE330A, 60 mHY 7.5 amps; 0.74 ohms DC resistance. 4⅜x4⅜x4, 12 lbs. $7.95

#WE1059A, 6 mHY 15 A; 0.11 ohms DC res. Sealed-type. 5x4¼x4¼, 15 lbs. $8.95

#WE1060A, 2 mHY 15 A; 0.14 ohms DC res. Sealed-type. 3⅝x4¼x3¼, 8 lbs. $5.95

#WE241C, 2.5 mHY 25 A; .25 ohms DC res. Sealed-type. 3⅝x4¼x3, 7 lbs. $7.95

* * * * * * *

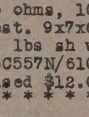
11 HY 500 MA 55 ohms, 10 KV test. 9x7x6; 42 lbs sh wt. #3C557N/610, used $12.00

* * * * * * *

100 HY 15 ma 1000 ohms 2⅝ x3⅜x2⅜ 4 lbs #A6450 $4.95

1 hy 235 ma 2x2x1¼;8 oz #0146 $2.00

6.3 hy 6.24a 61 ohm 3⅛x3x3¼; 51b 814-2421 $4



10 HY 225MA 85 OHM 3⅝x5¼x5 WT. 11 LBS. #TF1RX04YY $3.95

1.5 mH 30 ADC 0.035 ohm, 15 Vrms 2400 Hz. 3⅛x5x2½, 6 lb #924-0472 $9.

4.5 HY 150 ma 65 ohms 2500 V test; 2⅝x3⅛x2¼ 5 lbs. #221-6642 NEW $2.95

3.5 HY 500 MA 100 V. 60 CYC 30 OHMS 715WV 4x5½x3⅜; 10 LBS TF1A04KA/A8649 $2.95

10 HY 45 ma 810 ohms 2½x1½x1½ 2# 3C325-12 $2.

15 HY 150 ma 4x3x4, 8 lbs #15H150 $6.

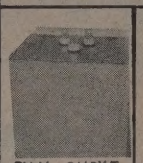
20 HY 80 ma 320 ohms 2 KV insulation; 4x3½x3, 6 lbs #38054, $3.95

STANCOR CHOKES #C-1412, 4 Hy 250 ma 60 ; 3 KV insulation. 2⅝x 3⅜x3⅜, 5 lbs. Used, $4.00

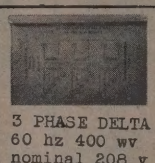
#C-2326, 1 Hy 300 ma 43 ohms 1500 V insulation. 2¼x3x1⅝, 3 lbs. NEW $3.

8 HY 116 ma 250 ohm 1500 Vrms; 3⅛x3¼x2 TF1A04YY $3.

10 HY 75 ma 268 ohms; 4x2⅝ x2¼; 3 lbs. #CS13886, $3.



DUAL CHOKE 11 HY 100 MA 200 OHMS 4x4x5½ WT 8 #3C557F-1 $1.75



3 PHASE DELTA 60 hz 400 wv nominal 208 v 3phase 1940 wv 1370 v rms 52 ma rms per leg 5x5⅛x4¼;18 lb 686-6836 $25

0 HYS 500 MA 5 OHM DC RES 500 WORK VOLTS #5950-646-1383 $5.95

1.5 HY 1.5 AMP 5000 v. TEST 8⅛x8⅛x6½; SHPG. WT: 60 L 5950-159-6041 $14.95

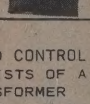
PRI: 115 VAC 60 Hz SEC: 280 VCT 75 MA; 13.5 V 1.2 AMPS; 5 VCT 3 A. SIZE: 4⅜x3⅝x4-5/8; 16 LBS. #193-8767 $3.95

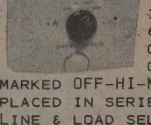
Pri: 115 VAC 50-60 Hz; Sec 850 VCT 340 ma 700 WV. 4⅜x 5⅝x4½, 17 lbs. #FT2546 $10.

Pri: 115 VAC 60 Hz; Sec: 870 VCT 250 ma 2 KV insula. 5x4⅜x4, 12 lbs. #T5/610 $8.

Pri: 115/230 VAC Sec: 650 VCT 70 ma, 6.3 V 3.8 A. 3⅝x4¼x3, 7 lbs sh #M4626/TS1060 $6.

PRI: 117v 50-60CYC SEC: 3/5v CT @ 2A 2/5v CT @ 2A 2/2.5v @ 10A 7x4x3½ WT. 12 LB GILFILLAN #54148-1 PRICE: $5.95



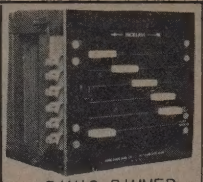


SPEED CONTROL CONSISTS OF A TRANSFORMER IN BOX 115 V. 60 HZ. WITH OUTPUT SELECT OR SWITCH MARKED OFF-HI-MED-LOW. PLACED IN SERIES WITH A.C. LINE & LOAD SELECTOR ALLOWS 100%,40% OR 20% OF INPUT TO LOAD,100 WATTS. SIZE 4 1/2 X 4 1/2 X 3; 61 LBS. #230428 NEW $2.95

Pri: 115/230 VAC 50-60 Hz Sec: 320 VCT 830 ma, 2.5 V CT 6 amps. 5x6⅝x4½, 18 lbs sh. #TF1RX03NA, $12.95

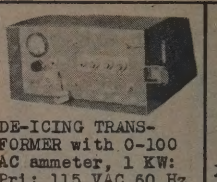
Pri: 115/230 VAC 50-1000 Hz Sec: 380 V 600 ma, 230 V 15 ma; 740 WV to grnd. 4x5½ x3⅜ 12 lbs. #C185028 $9.95

J-95/CRD-2 POWER CONTROL BOX for controlling and monitoring 115 or 230 VAC power circuits upto 500 watts. Consists of autotransformer w/10 step voltage control from 96 to 137 VAC and 240 VAC. Also features 3½" round 11-reed 55-65 Hz line frequency meter, 3½" round 0 to 150 VAC meter, 5 and 10 amp circuit breakers, and overload relays. 14½x14x13, 72 lbs sh. Used $48.



DAVIS DIMMER AUTO TRANSFORMER Input 230 VAC 60 Hz 1 Ø; five slide adjust 0-48 V outputs, 20 amp max-total. Used as stagelight control. 10x10x7", 90 lbs sh. #GR-3-048 $39.95

MULTI-VOLTAGE ISOLATION TRANS. PRI:73/88/95/105/115/125/190/210/230/250. 50/60 CY SEC:17.6/35.2/189 193/196/200/203 @ 1.6 AMP. 9½x4⅝x7⅞; 40 LBS. 2Z9619-6 $14.95



DE-ICING TRANSFORMER with 0-100 AC ammeter, 1 KW: Pri: 115 VAC 60 Hz Sec: 10/14/19/24 V On-Off switch, fused line; 140 lb 16x8x15½, disassembled. #5950-537-4950, used, $39.50

Pri: 115 V 60 Hz Sec: 500 VCT 100 ma, 600 VCT 150 ma, 6.3 VCT 3 A Size: 5x4⅛x3⅜, 10 lbs sh. #MB-1281, $5.95

TRIPLE CHOKE Each winding 10 mH 1 amp or 5 mH 2 amp; ½ ohm res, 60 WV to grnd. 2⅜x4¼x2¼ 4 lb. #3069 $3.95

DUAL CHOKE, 0.05H 500 ma 1.36 ohm; 3¼x4x2⅜, 4 lbs sh. #3C575Z7-5 $3.00

PRI:120 V 60 CYCLE SEC: 5.4v/2.7v @15A 5VCT @15A WITH INSULATOR & TUBE SOCKET C6 5x5x7; 15 LBS 5950-553-5572 $14.95

SWINGING CHOKE, 10/25 HY 125/15 ma. 4½x3¼x4⅜, 6 lbs. #TF1RX04LB/FGC-29, $5.95

DUAL CHOKE, 30 Hy 25 ma 1350 & 5 Hy 135 ma 150 ; 2½x5x2½, 3 lb. #6663, $3.

VARIABLE TRANSFORMERS

PRIMARIES 0-120,130,140 60 CYCLES. VARIOUS MANUFACTURE USED, CHECKED, GUARANTEED.

1 AMP	$4.95	9 AMP	$32.
1.25	5.50		
1.75	6.50	45 AMP	$90.

0-240 VAC VARIABLE TRANSFORMERS, 220/240 primaries 8 AMP $42. 12 AMP $55. 9 AMP $45. 15 AMP $65. KNOBS & DIAL PLATES INCLD. Other values avail. Write.

12 VOLT 60 HZ input, 0-3.5 V 2 amps out. #5-1066, $3.

VARIAC M-5/RMS11-2, 0-135V @ 5 AMPS FROM 114 VAC 400 HZ INPUT, #7486, $12.95

VARIAC M20BB 120 VOLT 350 20 AMP. MOTORIZED 115V400 #5950-089-7734 NEW $65.00

115VAC 60HZ 9AMP GANGED FOR TWO PHASE MOTORIZED 115VAC 60HZ CN-54/FST-1 USED,$50. LESS MOTOR $45.

POWERSTAT, 115v. 400/800HZ OUTPUT: 0-130v 7.5 AMPS, 0.975 KVA. #5950-518-2508, NEW $13.95

KNOBS FOR VARIACS

2-3/8" dia. fits 3/8" shft. W/ptr. Luxitrol, $1.50

3½" dia wheel w/ pointer; f/3/8 shft. $3.95

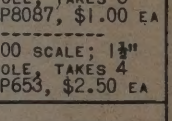
4" d. wheel w/ptr. f/11/16" d. shft. KNOB-35, used, $3.

7½" DIA. WHEEL-TYPE CONTROL W/ALUMINUM POINTER; FITS ¾" SHFT. POWERSTAT, $5.95

DIAL PLATES, UNUSED.

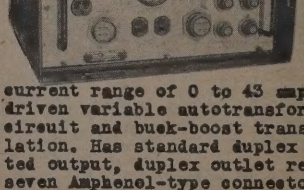
4" DIA. 0-100 SCALE; 7/8" DIA. CTR. HOLE, TAKES 3 SCREWS. #BP8087, $1.00 EA

10" DIA. 0-100 SCALE; 1½" DIA. CTR. HOLE, TAKES 4 SCREWS. #BP653, $2.50 EA



TF-238 400 Hz LINE REGULATOR, input 100-130 VAC 400 Hz; output 115 VAC -5 V 400 Hz 7.5 KV. Uses 13 amp variable transformer and buck-boost transformer; p/o TPS-1G system. 10½x14½ x9½; 55 lbs sh. Unused $75.

5000 WATT REGULATOR



CN-514/GRC AUTOMATIC VOLTAGE REGULATOR, regulates inputs of 95 to 135 VAC 47.5 to 63.5 Hz to output of 115 VAC -1% over a current range of 0 to 43 amps. Uses motor driven variable autotransformer with drive circuit and buck-boost transformer for regulation. Has standard duplex outlet unregulated output, duplex outlet regulated, and seven Amphenol-type connector outlets. Also 2½" rd 0-150 VAC meter and circuit breaker. Operates in manual or automatic modes. 8⅝x17 x15; sh wt two pkgs 70/20 lbs. Used, $125.00

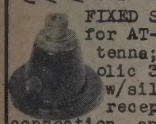
ANTENNAS

MP-57 MAST BASE with coil spring and brown insulator. Use MS-53 or -54 as beginning mast section. Mounts in 2¼" dia hole as on brackets MP-41-50-60, AB-243. 11½"Hx4½" dia, 11 lbs sh. Unused $10. Unused, $15.00

AT-803/VR Center-Fed Broadband Vertical Dipole, 225-400 Mhz; N conn. 9½x2½; used $15.

MAST SECTIONS (shown to left) 3 ft. painted, copper-coated tubular steel. Sections screw together to make desired length with MS-49 as top--then MS-50, -51, -52, and -53. MS-53 can be screwed into another MS-53 for added length. (MS-53 also screws into MS-54. Sections self-support to 15 feet. Taper 5/8" to 3/16"; 1 lbs sh. May need paint. MS-49-50-51-52-53, used $1 ea Unused $1.50 ea. MS-54 used $2.50; Un $4. BG-56 CANVAS ROLL BAG f/MS-sections, $6.

CW-206 ROLL BAG for MS-116-117-118 mast sections; 40"Lx3"Hx5"W, $6.00 each.



FIXED STATION BASE for AT-271/PRC antenna; black phenolic 3½" dia base w/silver-plated receptacle; BNC connection, and load coil 2 lbs. #CAN-100-7555 $4.

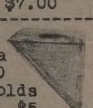
MP-47A MAST BASE, similar to MP-57 but 20" long and 8½" dia insulator. 33 lbs sh wt. Used, $25.00

B&W 1KW BALUNS, the missing link between balanced antenna loads and unbalanced feed lines. 4x4½x4½; unused.

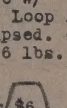
#700 (10M) or #701 (15M) $5

AT-339/PRC-6 HOMING ANTENNA for 38-55.4 Mhz range. Handheld unit has folding loop, 5-step output attenuator, 4' cable w/ BNC connector. Loop 24"H; 12½x5x2½ collapsed. Canvas bag included; 6 lbs. $10.00

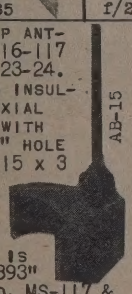
AB-243 CORNER BRACKET f/ MP-48-57 and AB-15 bases. (Pictured w/AB-15 below.) 8 lbs sh. Used, $7.00



MP-50 MAST BASE BRACKET f/2" dia hole mount $7.50
MP-63 BRACKET holds base tilted-out, $5



MP-60 BRACKET f/2" insulator $6

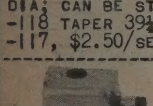


AB-15 BASE FOR WHIP ANTENNA SECTIONS MS-116-117-118 ALSO AB-21-22-23-24. SPRING ACTION WITH INSULATOR 3½x3" AND COAXIAL CONNECTOR FOR USE WITH PL-259, REQUIRES 2" HOLE FOR MOUNTING. SIZE 15 x 3 WT: 2 LBS. $4.95

WHIP ANTENNA MAST SECTIONS FOR USE WITH AB-15. MS-116 IS LARGEST, 39½"L X .393" DIA; CAN BE STACKED. MS-117 & -118 TAPER 39½"L. MS-116 OR -117, $2.50/SEC.

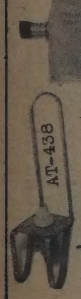
CG-1013 TRANSMISSION LINE LAUNCHING UNIT WITH HEATING ELEMENT INSIDE. ALUMINUM W/CONICAL FIBER GLASS SHIELD OVER ELE. COAXIAL CONN. FOR UG-100 PLUG, 33" LG. 8" DIA. 10 LBS. $5

RG-14A/U COAXIAL CABLE 51 OHM #10 w/UG-100 & UG-707 10' $7.50 15' $10



CU-92/APN ANTENNA COUPLING UNIT is a impedance matching device enabling the operation of 2 receivers from one ant. has one SO-239 & 2-binding posts and tuning adjustment 500 Khz-4 Mhz, $3.95

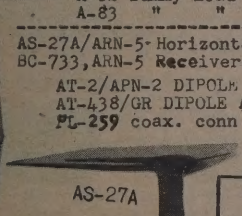
A-62 Dummy Load for SCR-508-528-BC-604 $5
A-83 " " " " 608-628-" 683 $4

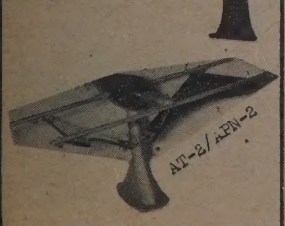


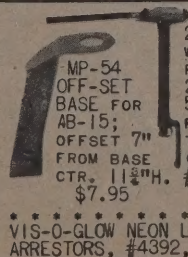
AS-27A/ARN-5 Horizontal folded dipole used on BC-733, ARN-5 Receivers 108-110 mhz etc. $10

AT-2/APN-2 DIPOLE ANTENNA, 150-180 MHZ $5.00
AT-438/GR DIPOLE ANTENNA 15" folded, takes PL-259 coax. conn on insulated bracket. $15

ANTENNA WIRE SOLID COPPER #10 VINLY COVERED, 250FT #4884C $25





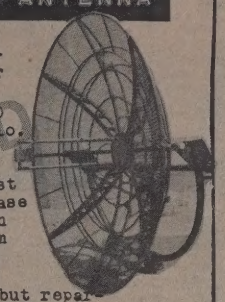


MP-54 OFF-SET BASE FOR AB-15; OFFSET 7" FROM BASE CTR. 11½"H. $7.95

20" DIPOLE w/14" SUPPORT. 230-250 MHZ; 50Ω LINE FEED. USES TYPE "N" CONNECTOR. #2A288A-35 $6.95

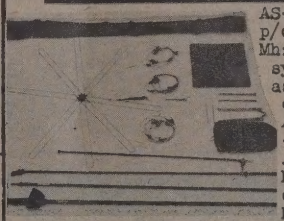
VIS-O-GLOW NEON LIGHTNING ARRESTORS, #4392, $1.00 EA.

8 FOOT DISH ANTENNA



AS-554/TRC 8' dia ANTENNA with aluminum mesh paraboloid surface. Designed for 1700-2400 Mhz with 30 db gain; 4.5 Mhz bandwidth. 20 db major to minor lobe ratio. Rugged military construction; looks like one can add onto and extend the cast aluminum supports to increase dish diameter. 36" feedhorn focal length; 16" fall from edge to center. Shipped in sections with feedhorn and yoke. Mesh may have minor but repairable breaks. 425 lbs sh wt. Used ~~$500~~ $350.

PORTABLE 28' ANTENNA



AS-1882/GR ANTENNA SET p/o AN/TRD-4 0.5 to 30 Mhz direction finding system; stands 28' H assembled. Consists of 96"L mast section AT-442 (2" dia), -443 -444, and 70" mast AT-445 (1" dia); MX-1168 66" loading disc array; and MT-865 wood and metal gimble base. Also four GP-2 15" stakes, three 16" guy stakes, three 32' 1/8" th steel guy wires with insulators and clamp, loading resistor, canvas bag, and canvas case. 100 lbs sh wt: motor freight only. Used, $79.50

AB-24 MAST SECTION, terminates MS-116-117, 27" long, used, $2.50 ea.

AN-45 Antenna f/BC-620 (SCR509-510) transceiver; telescopes 17¼"-98½", unused $7.50

AN-130 Whip Antenna for BC-1000 (SCR-300); 30" on flexible gooseneck base, $10.00

AT-272 Goose neck flexible base 8" used with flat antenna on PRC sets. $2.

MT-652/GR ANTENNA BASE f/MS-116-117-118; fits RT-66-67-68-70, R-108-109-110. Used $5.

CCI-51048 WHIP ANTENNA Telescoping, ft. extended, 15" collasped. $2.50

AT-272 FLAT RIBBON ANTENNA, 30" long as used with PRC-8-9-10 radios; used, $3.

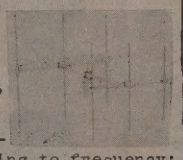
MP-74 GOOSENECK BASE for MS-118/AB-23 Mast Sections, 14" lg. w/spade type bracket for side mounting. $2.00

M-422 ADAPTER for using MS-116/AB-23 sections with PRC & BC-1000 as long ant. $2.00

AB-129 Rubber Base f/AT-271 on PRC-8-9-10 $2.
AB-591 Rubber Base f/AT-271 on PRC-25-77, $4.

AB-1093/USQ-42 WHIP ANTENNA w/spring base and PL-259 connector on base bottom. Lower two sections telescope 21"-35½"; screw-on 18½"L wire-like top section. NEW $15

40-100 MHZ YAGI ARRAY



AS-756/TRC TWO 3-ELEMENT YAGI ARRAY for 40-100 Mhz range, 5 db gain; vertical or horizontal polarization. Consists of array spacer bar, two antenna booms, and 12 each long, short, and subassembly antenna elements. Component lengths adjust according to frequency: spacer 58"-112", booms 72", elements 40"-58". Matching transformer built into each boom. 10x77½x20 transit case and spare components to make third yagi; 185 lbs sh. Unused $79.50

AB-101 MAST SECTIONS for ANTENNA SUPPORT, steel mast 2" dia X 68" long with swaged end and locking device; sold in sets of 7 only. 100 lbs sh - no UPS. Used, ~~$50.00~~ $32.00

AB-318 GINPOLE swivel base a/stake; 1-3/8" dia. Slips into mast section. Used $5.

MX-378 GUY RING for 1-3/8" masts; attach guy rope or wire at corners, $.75 ea

GR-325 GUY RING for 3½" dia masts, $1.25 ea

MX- Guy Ropes are 3/16" dia nylon, 800 lb test; w/adjust hardware, hook & insulator
MX-382 31 ft used $2. MX-1469 44 ft Unused $4

GP-2 GUY STAKE, steel 16¼"x¼" dia; 1-1/8" head, 1-3/8" point. 2 lbs, 85¢ ea 4/$3.

ARA-31 HOMING SYSTEM

For use in the 24 to 49 Mhz FM range. Complete system consists of four AT-624 24" antenna elements, two CU-459 ant. element connectors, a KY-149 keying unit w/mtg. and one SA-474 switch box. BNC connections except for one reverse pole BNC. An/ARA-31 w/manual, new, $50.
AT-624 antenna element, $8.00 each.
CU-459 antenna connector, $5.00 each.
SA-474 switching box, $6.00 each.
KY-149 keying unit, ~~$25.00~~ each $18.95

LP-21 LOOP ANTENNA, used with 200-1500 Khz radio compass receiver; has 24 V 400 Hz motor for rotating loop and autosyn to transmit to I-82 or similar indicator Teardrop shape for aircraft; 30 lbs. $25

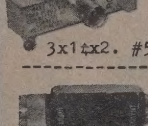
AS-578/ARA ANTENNA for ARC-27-34-55 direction finding sets; 15 lbs. Used, $25.

AS-313/ARN-6 ANTENNA LOOP for AN/ARN-6 radio compass system; 18 lbs. Used, $15.

MAGNACRAFT #122RX-16 COAXIAL RELAY, 12-24 VDC SPDT w/aux SPST n.o. 10 amp contact; 100 W 50 ohm. 2-RCA plugs & SO-239 connector; w/cover. 2½x2½x1½, 2 lbs. Unused $6.

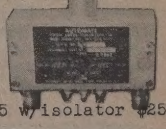
SPDT COAXIAL SWITCH rated DC to 5 Ghz, approx 1 KW. 28 VDV motor drives contact bar. Requires 3-"LT" connectors (as used on RG-17 coax). and one 7-pin control connector. 6x6x9, 8 lbs; Thompson-Ramo #C14K2CA, unused, $27.95

SPDT ANTENNA RELAY

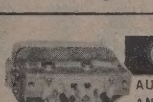


SPDT ANTENNA CHANGEOVER RELAY, 6 vdc 20 ohm. Contacts appear to be good to 100 watts. BNC type conn 3x1¼x2. #5945-539-3025 unused $7.95

WESTERN MICROWAVE ICL35A FERRITE ISOLATOR, 1.7 to 1.8 Ghz; 17 db isolation loss, 0.7 db insertion loss. 2 watts ave. Has male and female type N conn. 2x3-3/8x1½, $15.



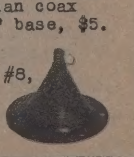
AUTOMATE COXIAL SWITCH, MODEL 94CSA, used with above isolator. Two separate 28 vdc spdt coils, ea. one side norm. gnd. Two female TNC & one type N conn. Size 3½x1¼x3 used $12.95 w/isolator $25



CHOPPER

RF CHOPPER USED IN AUTOMATIC DIRECTION FINDING ANTENNAS TO SAMPLE BETWEEN SENSE AND REFERENCE ANTENNA. USES TWO 100 Hz -5% COILS; CAN BE ACTUATED MANUALLY WITH DC VOLTAGES. HAS TWO UG-88 CONNECTORS ON 15" CABLES AND UG-290 BNC OUTPUT CONN. 4-3/8x3½x2; SH WT: 3 LBS. REMOVED FROM EQUIP. #354-1013-00, $2.95

ANTENNA's from CANADA: UHF-type for 243 Mhz approx. 23" lg; screws into hard rubber base that mounts onto a mounting base. Rubber base has provision for Canadian coax fitting. Aerial #9 w/24" base, $5.



Cone-shaped aerial base #8, hard rubber, 5" dia. X 4" h. With 96" whip antenna. #PC-8-96, $8.50

CABLES

NEW COAXIAL CABLE

NEW MANUFACTURE AND BRANDED WITH STANDARD TYPE NUMBERS TO MIL-R-17A SPECIFICATIONS.

PRICES LISTED FOR LENGTHS INDICATED, IN-BETWEEN LENGTHS USE THE HIGHER PRICE. LESS THAN 100 FEET ADD 10% TO HIGHEST PRICE

COAX RG- #	Ohms	100 feet	500 feet	1000 feet	5000 feet
RG-8/U	52	.22	.21	.20	.20
RG-11/U	75	.20	.19	.18	.18
RG-58/U	53.5	.11	.10	.09	.09
RG-59/U	73	.12	.11	.10	.10

Prices subject to change without notice.

NEW COAXIAL CONNECTORS

SO-239 59¢ ea. 10 or more 55¢ ea. #SH-SO-239, one hole mt SO-239 60¢

PL-259 69¢ ea. 10 or more 65¢ ea. #83-58FCP, short barrel PL-259 for RG-58, 50¢

CH-259 75¢ ea. 10 or more 70¢ ea.

PL-258 JUNCTION $1.25 ea. 10 or more $1.10 ea. UG-536 "N" conn. for RG-58, $1.

COAX CONNECTORS

CONNECTORS & ADAPTERS: (m) male, (f) female, (bulk) bulkhead, (rec) receptacle, (r/a) right angle; (U) used, (Un) unused.

TYPE BNC: UG-88 m (RG-58) U- 45¢ ea, 10/$4.
UG-306 90 m-f Un $2.
-260 m (RG-59) U-65¢
-273 to UHF Un-$2.
-282 to post $1.50
-290 f rec U-65¢
-291 f panel U-$1.
UG-909 bulk U-$1
-911 bulk Un-$2
-913 m r/a Un-$2
-1090 to post U-$2
-912 bulk Un-$2
-1441 to two banana jacks U- $3.

TYPE C: UG-573 m (RG-8) U- $1.50 each.
UG-626 m (RG-21) U-$2
UG-710 m r/a Un-$3
-943 (RG-12) U-$3

TYPE N:
UG-18 (RG-21) Un-$2.
-27 m-f r/a Un-$2.
-30 f-f bulk Un-$2.
UG-536 (RG-58) Un-$1
-58 f chas U $1.50
-997 r/a rec Un-$4

OTHERS:
UG-100 m U-$1.50
-100 panel U-$1.50
-109 f/UG-100 $1.50
DA-113 dummy U-$5
-212 HN r/a Un-$3
M-359 elbow: PL-259 to SO-239, U-40¢ Un-75¢
UG-175: reduces PL-259 for RG-58, NEW 35¢
-176: " " " RG-59, NEW 35¢

COAX CABLES from mil-equipment; used-usable:
RG-9 w/two UG-573 "C" connectors, 13" $2.50
RG-58 w/two UG-88 BNC conn., 4' min., $3.00
RG-59 w/male & female "N", 50', #CG-357, $3.
RG-213 w/two right angle male "N", 3', $6.
BATTERY CABLE, 2-cond #8, 8 ft, $3.00

WIRE SALE

VINYL-COVERED HOOK-UP WIRE, various colors; all stranded copper. On orders above 2000' we may not be able to ship continuous length.

#12 wire	$7.50/100 ft		$50/1000'
#14	$6.50/100'	$42/1000'	$185/5000'
#16	$4/100'	$20/1000'	$65/5000'
#18	$3/100'	$14/1000'	$50/5000'
#20	$3/100'	$12/1000'	$45/5000'
#22 shielded	$3.50/100'	$22/1K'	$75/5K'
#26 solid	$6/500'	$9/1000'	$30/5000'

AIRCRAFT-TYPE WIRE, nylon insulation w/braid covering; silver-coated wire and shield:
#22 stranded, $4.50/100' $32/1000'

COMPUTER CONTROL CABLE in black PVC jacket, #24 wire in color-coded vinyl; LV-low voltage

	Cond		10'	100'	500'	1000'
#CC24-28LV	28	$/ft	.45	.32	.28	.22
CC24-14	14		.32	.28	.24	.18

CX-263/G CABLE w/U-226 waterproof and locking connector. 10½' cable has 5-19 AWG copper and steel stranded pairs. U-226 contacts gold-plated; can be rewired for 12 AWG. U226 mates to U226. 4 lbs. 2/$7.

BUNKER RAMO AMPHENOL

Sale!

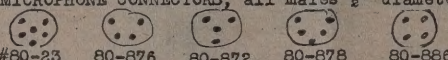
RF and AUDIO CONNECTORS, all new package; Male (M), Female (F)

BNC quick assembly: #31-4700 50 (M) $1. -4701 50 (F) $1.
#31-4702 70 (M) $1.25; -4703 70 (F) $1.25

UHF-types: #82-23 (M) to (F) w/ground, $1.50
#83-5SPA, press male to (F) adapter, $1.25
83-58FCP, short barrel PL-259 f/RG-58, $.50

83-877, adapter with PL-259 each end, $1.25
83-878, single hole mount SO-239, $.60
M-358, adapter "T" 2-(F) to (M), $1.75
#81-103 mini plug or #81-104 mini jack, $.50

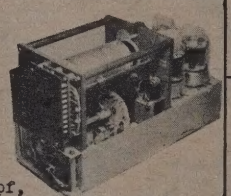
MICROPHONE CONNECTORS, all males ⅜" diameter



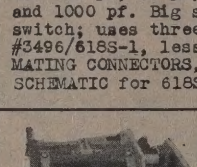
#80-23 press fit 60¢ | 80-876 lock ring $1 | 80-872 extended pins 60¢ | 80-878 lock ring $1 | 80-886 threaded barrel $1

RIBBON INDUCTOR

VARIABLE RIBBON INDUCTOR with motor drive; p/o Collins 180L antenna tuner. Consists of two 5.4"L x 3.375" dia coils with 288* of drawn silver ribbon (o.125"w x 0.01"th) wound between; approx 28 uH. Ribbon is transferred from one coil to the other as a 28 VDC motor turns both. O/A 9¼x5⅝x5⅝, 10 lbs sh wt. #I401/CU-991, removed from equipment, $29.95

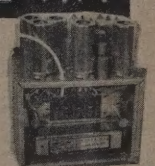


618S-1 POWER AMPLIFIER, p/o Collins 2-25 Mhz 100 watt transceiver. Has 12.3 uH roller inductor; coil 3⅝x1½" dia with 27 turns #14 silver-tinned wire rotated by 115 VAC 400 Hz selsyn. Also ten Centralab 850 HV capacitors 10 pf, 50 pf, 7/100 pf, and 1000 pf. Big silver contacts on ceramic switch; uses three 6159 tubes. 11x5x6, 10 lbs #3496/618S-1, less tubes, $22. With tubes $30 MATING CONNECTORS, 2 required, $2.50 each. SCHEMATIC for 618S-1 power amp, $1.50



ROLLER INDUCTOR ASSEMBLY with motor drive. 3.4" long x 1.75" dia. coil; 28 turns #18 wire. Approx. 14 uHy with center tap. 115 VAC 400 Hz 20 watt motor turns the coil. Originally used to automatically resonate an antenna to a transceiver's frequency. O/A 4½x2¾x3¾; 5 lbs. sh. #T301/CU-991, $14.95

COLLINS 250 KHZ I.F.



250 Khz IF ASSEMBLY from Collins 618S-1 transceiver. Has 250 Khz mechanical filter with 6.7 Khz width and tubes 3/5749 and 2/5726. 4⅝x6x3½, 3 lbs sh wt. #IF250-67/618S1, used, $12.95

250 Khz IF ASSEMBLY from RT-311/ARC-38 transceiver. Similar to above but with two mechanical filters--one 2 Khz width, the other 8.5 Khz. #IF250/ARC38 $24.95

250 KHZ CRYSTAL OSCILLATOR from Collins 618S1. Has 250 Khz BFO oscillator coil, crystal oven with CR-46 250 Khz crystal, and 2/5749 tubes. 4⅝x6x1½, 2 lbs sh. #OSC-250/618S1, $6.95

XMITTING CAPACITORS

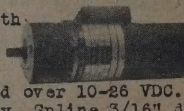
MICA TRANSMITTING CAPACITORS, G-SERIES TYPE IN USED OR UNUSED CONDITION DEPENDING UPON A VALUE'S AVAILABILITY. VARIOUS MANUFACTURERS. SATISFACTION GUARANTEED OR PURCHASE PRICE WILL BE REFUNDED. OTHER VALUES IN STOCK. WRITE.

TYPE	KV	MFD	KV	MFD	
G1, 2¼"h x 2¾" dia, wt: 3 lbs. $12.50 eac	1.0	0.04	6.0	0.0001	
	1.5	0.08	6.0	0.0002	
	3.0	0.02	6.0	0.00024	
	4.0	0.0062	10.0	0.00015	
G2, 3½"h x 3" dia., wt: 5 lbs. $18.50 eac	2.0	0.03	10.0	0.00015	
	2.0	0.045	10.0	0.00057	
G3, 5"h x 4" dia., wt: 8 lbs., $27.50 eac	2.5	0.15	6.0	0.006	
	5.0	0.02	20.0	0.00015	
G4, 5"h x 5¾" dia., wt: 12 lbs, $39.50 ea	4.0	0.084	6.0	0.0373	
	6.0	0.0224	10.0	0.02	
G5, 10"h x 6¾" dia. wt: 22 lbs, $59.50 ea	10.0	0.02	15.0	0.0082	
	15.0	0.0068	35.0	0.0002	

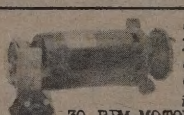
ROBOTICS MOTORS

15° STEPPER MOTOR, removed from computer printer; originally used +9 to +40 VDC pulse. Hi-speed, hi-performance; w/original driver circuit diagram. 1x¼" dia shaft; o/a 5⅛x1-5/8 dia, 2 lbs BINDER #4-62 4Ω field $17.50; #2-62, 2Ω, $17.

15°4-PHASE VR STEP SERVO, 5 ohms 1.5 A/Ø; 28 VDC input pulse. ⅜x¼" dia shaft; o/a 3x3¼x3, 2 lbs sh. Made in Canada; removed from equipment. #20M34C1, $9.95



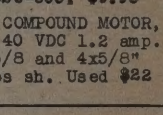
26 VDC REVERSIBLE MOTOR with clutch for fast stops; 12K RPM @ 26 VDC 1.2 amps. Clutch engages at 10 VDC which allows variable speed over 10-26 VDC. Rated for intermittent duty. Spline 3/16" dia shaft; o/a 4x1½" dia, 1 lb. #SR-215 NEW $6.95



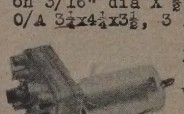
GE DC COMPOUND MOTOR 1/8 HP 115 VDC 1.5 A 1725 RPM; has air pressure brake. P/o tape drive; 5x12x5, 18 lbs sh. #5BC-12RA49, used, $14.95

30 RPM MOTOR GEARBOX, 115 V 60 Hz with fast stop solenoid clutch; 3x3/8" dia shaft. 3½x10½x5½, 10 lbs. #3732U-600. $9.95

GE #5BC48AB550A ¼ HP DC SHUNT COMPOUND MOTOR, armature 115 VDC 2.1 A; field 40 VDC 1.2 amp. 1140 RPM. Double end shaft 2x5/8 and 4x5/8" dia. Casing 11¼x6¾" dia. 60 lbs sh. Used $22

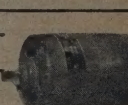


160 RPM DRIVE UNIT w/clutch has Globe C-25A512 27 VDC 15000 RPM motor and 27 VDC clutch assembly. Motor operates with good torque over 5 to 27 VDC. 160 RPM output on 3/16" dia X ½" lg shaft. O/A 3½x4¼x3½, 3 lbs. #160DRV/618 used $8.95



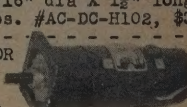
100 RPM 12 VDC GEAR MOTOR, output at 3/8" x 1/8" bar which would mate with slotted shaft (not included). Also 3400 RPM available on 5/32" dia x ½" lg shaft. O/A 5¼x2¼x2-3/8; 3 lbs sh. #LEE-11152S unused, $8.95

MOTORS



115 VOLT AC-DC MOTOR, starts at 15 VDC; runs counter-clockwise. 3" dia X 5¼" lg plus 5/16" dia X 1-1/8" lg threaded shaft. 5 lbs sh. #AC-DC-R102, unused, $4.95

115 V AC-DC MOTOR, starts at 25 VDC, runs clockwise. 2¼x3x4⅛ plus 5/16" dia X 1½" long machined spiral shft. 3 lbs. #AC-DC-H102, $3.



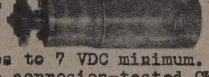
27 VDC 10 AMP 250 RPM MOTOR with brake which actuates when DC input is approx. 5 volts. Duty cycle 30 sec on, 300 sec off. O/A 2⅝x2¾x6¼ plus 7/8" long X 3/8" dia. shaft. 5 lbs sh. #2312-6, $7.95

HAND-CRANK MAGNETO GENERATORS OUTPUT APPROX. 100 VOLTS DEPENDING ON SPEED OF ROTATION. USED TO RING BELLS IN TELEPHONE LINES. CAN BE USED FOR worm shocker and other experiments; 4x2½, 2 lbs sh. C-42 w/crank, used-checked, $12.00 GN-38B w/exposed gear crank, p/o EE-8, $16.

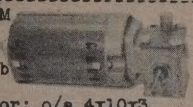
DC AIRCRAFT MOTOR; GE#5BA-50LJ29, 0.4 HP, 3000 RPM. ARMATURE: 60v. @ 2.3 AMPS FIELD: 27 VOLTS @ 6.5 AMPS DUTY: 10 MIN. @ FULL RATING. SHAFT IS CORKSCREW-TYPE 5/8 INCH DIA. FLANGE MTG. 3⅜ CNTS. BODY SIZE: 6⅜x4¼x4¼ WT: 11 LBS. $4.95

VARIABLE SPEED DRIVE CONTROL USED WITH MOTOR AM No. E-85-132. GE#3S750RJ750A1, FIELD 100 VDC ARM., 140 VDC., 2.6 A INPUT 230 V. 50/60 HZ. 5 LBS Unused w/schematic $15.00

JOHN OSTER TYPE C-24A-1B KS-5829 SERIES MOTOR; 27 VDC, 0.01 HP, 7000 RPM. SIZE: 3x2 DIA.; SHAFT: 1x¼ DIA. WT: 1 LB. Unused, $2.95



LOW SPEED DC GEAR MOTORS, various styles similar to picture; approx speeds given @ 24 VDC. Slower speeds at reduced voltages to 7 VDC minimum. 3½"L x 1¼" dia. Used-some corrosion-tested OK #30 RPM-DC-GM $8.50 #70-100 RPM-GM, $8.75 #200-300 RPM-DC-GM, $8.50

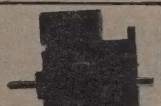


GE MINIATURE GEAR MOTOR, 328 RPM 3/8" dia right angle output shaft; other 3500 RPM 5/16" dia shaft, 5 in-lb torque. Requires 115 VAC 60 Hz and 7 mf 220 VAC capacitor; o/a 4x10x3, 8 lbs sh. GE #5KCM49NG, used, $8.95 CAPACITOR for above, 7 mf 330 VAC, $1.35

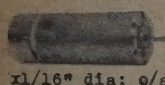
MD-34/ARA-8 MODULATOR-KEYER, p/o automatic homing keying assembly; contains Oster BT-2-1S 28 VDC shunt motor, 12000 RPM 1.1 amps connected to double worm reduction with output of 32 to 50 RPM over 10-26 VDC. Also has phase shift capacitor and RF UHF connectors. 3½x10x4½, 5 lbs. Used, $3.95

28 VDC 12000 RPM MOTOR f/ARC-3 set. Removable worm gear; shaft 1"x3/16" dia. O/A 3" x 1½" dia. #697-2644, $5.95

HAND CRANK GENERATOR AS USED IN GIESON GIRL RESCUE TRANSMITTERS OUTPUT 28 VDC @ 175 MA & 300 VD @ 30 MA. WHEN CRANKED AT 60 RPM GEAR RATIO APPRX. 72 TO 1. NO LEGS SEAT OR MOUNTING. #GEN/CRT-3 RE-MOVED $12.00



HYSTERESIS SYNCHRONOUS MOTOR 115v 60Hz, 1800RPM, CONT. 1/8HP FL. MTG. 7", SHAFT 2"/1"x⅜ DIA. SIZE 6x5, CAP. ST. USED 25LB. BODINE#NCH-54 OR EQUAL ~~$36~~ $16

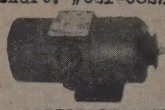


DC MOTOR, operates over 10-15 VDC 100 ma 2375-2425 RPM with governor. Shaft 5/16"L x1/16" dia; o/a 2-7/8x1-1/8. #AST-GK26 $7.95

MOTOR DRIVE ASSEMBLY f/vacuum variable capacitor. Uses 1/100 HP 15000 RPM 28 VDC motor (2"Lx1" dia.) Has worm drive from motor to a series of gears geared to a 2" lever arm with ¼" vertical motion. Also has limit switches and Cinch DA-15 15-pin connector. O/A size: 8x 3½x2⅜, 3 lbs sh. #DRV501/CU991, used, $9.95

WE KS-5871-L01 MOTOR, 28.8 VDC @ 3.3 A. 5600 RPM, 0.04 HP SERIES WOUND. CONTINUOUS DUTY; REVERSIBLE WITH SPEED GOVERNOR. (MAY ALSO OPERATE AT 12 VDC AT REDUCED SPEED. SHAFT ⅛x½, OVERALL SIZE: 6½x3¼ DIA. SHPG. WT: 7 LBS. USED $7.95

GLOBE DC MOTOR, 27.5 VDC 2.4 A 0.035 HP 7400 RPM; 2⅜"L x 1-5/8" dia plus ¼"Lx3/16" dia shaft. #621-6822 unused $7.95

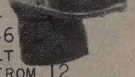


#A7155 DELCO DC MOTOR, 28 VDC 2.4 A 1/30 HP 3600 RPM. Size: 5½x2⅜" dia; shaft 1" x¼" dia, 2 lbs. Unused $4.

PD-5/ARA-19 TUNING DRIVE, p/o ARN-6 remote tuning system. Uses 27 VDC 250 RPM Delco PM motor. Also 10-turn 1000 ohm linear pot driven by gear from the motor. Output with female MC-124 spline shaft. Motor shaft 3/8" long X 1/8" dia. O/A 5½x4½x2¼, 4 lbs sh. Used, $9.95 Mating conn. $2.50; MC-124 spline, 20", $1.50

28 VOLT MOTOR, 135 RPM; HP: 1 OZ/IN. WITH 5/16x⅝" DIA. GEARED SHAFT; HAS 4 SOLDER TERMINALS ON 1x1⅛x⅝ BLOCK. MOTOR SIZE: 5x1-7/8 DIA. WT: 1 LB. GE#5BA10FJ444 USED, $7.95

HEAVY-DUTY TAPE RECORDER MOTOR, 115 VAC 60 Hz 1500 RPM; 3½x3⅝x2⅛ overall, shaft 1¼x5/16" dia. 5 lbs sh wt. #D6-20220, used, $5.95



B-701/R-107 MOTOR FROM AS-313/ARN-6 LOOP ANTENNA. OPERATES FROM 26 VOLT 400 HZ @ 2750 RPM. WILL OPERATE FROM 12 60 HZ. SIZE: 3x2⅝x3 WITH 3/8" GEAR. WT: 2 LB. Price: Used, $1.95

HOLTZER-CABOT #1981-HC 120 VAC 400 Hz GEAR MOTOR, 6 RPM with 40 oz.-in. torque. Shaft ⅛" long x 0.2" dia. Overall size: 2½x2⅛x3, 3 lbs sh. #1981-HC, unused $14.95

BARBER COLEMAN AC GEAR MOTOR, 230 VAC 60 Hz; approx 3⅛ RPM. 5/16" dia shaft X 7/8" long; Size: 2⅛x3⅛x3, 2 lbs sh. B-C #108134483 NEW, $3.95

MOTOR W/RIGHT ANGLE SHAFT & MOUNT, 1/8 HP 230 RPM. SHAFT SIZE: 5/16" LONG X 3/8" DIA. CLEARANCE BETWEEN SHAFT AND MOUNTING ABOUT 1" REQUIRES 115 VAC 60 Hz @ 1.9 AMPS. SIZE: 7x3⅜ DIA. WT: 15 LBS. ROBBINS & MEYERS #KL-H330, $12.95

SA-28 AIRCRAFT INSTRUMENT ASSEMBLY with 27 VDC PM motor, 10000 RPM with worm gear assembly and other parts. Motor size 1¼x1x1, 3/16" dia shaft: o/a 6"Lx3¼" dia, 2 lbs. Unused $6.95

D.C. LINEAR ACTUATOR; 26 VDC 2A. 400 RPM. 45 OZ IN. TORQUE, APPROX. 2" ARM TRAVEL ON THREADED SHAFT, REQUIRES LIMIT SWITCHES, HAS NO PROVISION FOR OVER TRAVEL. HAS BRAKE FOR FAST STOP. SIZE 5x1⅛ IN.GE#5BA10FJ450 USED $8.95

PM MOTORS, each 27 VDC 1/100 HP; 1⅝x1-1/8" dia plus ¼"L x3/16" dia geared shaft. Used, #R118-100-PM, 15000 RPM, $7. #C-3A-1114-PM, 9000 RPM, $5.95

RECORDER MOTOR, 1500 RPM; 2" SHAFT IS 3/16" DIA. FOR 1¼"; 3/64" DIA. LAST ¼". 3/8x3/16" DIA. SHAFT ON OTHER SIDE. MOTOR SIZE: 2⅝x2⅜x2 WT: 2 LBS. #602-1 UNUSED, $3.50

200 RPM 32 V 60 Hz GEAR MOTOR, has shaft 1"x⅜" dia and 3/16" dia shaft for fan. For intermittent use, increased voltage increases torque. O/a 5⅜x5x2¼, 3 lbs. #M0L-2460, unused, $3.25

120 RPM 115 V 60 Hz GEAR MOTOR, ¼" d shaft w/plastic gear. 4x3x2⅜, 3 lb. #ZGM30108, $3.50

VICKERS AR-10007G 115 VOLT 50/60 CYCLE SELENOID OPERATED AIR VALVE ONE INLET ACTUATES TUBE PLUNGER 1" STROKE. USED SIZE:6x4½x2⅜; 5 LBS. $12.95

CONTROL TRANSMITTER SELSYNS, similar to AY201 rotor 26 V 1 Ø, stator 11.8 V 3 Ø 400 Hz; usable in wind direction and antenna position projects. Various mfg; 1 lb. #WD-CX-SEL $6.

AY-165 AUTOSYN DIFFERENTIAL, 400 CYCLE, 11.8 V. 3 PHASE ONE TO ONE RATIO. BENDIX & OTHERS. SIZE:1⅜x1⅜. PRICE: REMOVED FROM EQUIP. $2.95
AY-231 AND AY-232 SAME SPECS. AS ABOVE.
15CX4 TRANSMIT 115 VAC 400 Hz, used, $4.95
15RS4L RESOLVER 26/11.8 V 400 Hz, used $4.95
23CX4 TRANSMIT 115 VAC 40 Hz, used, $8.95
23CX8 TRANSMIT 115/90 V 400 Hz, used, $10.00
23CT4 CONTROL/TRANS 115 V 400 Hz, used, $8.95
23CT6 TRANSFORMER 90/1 V per degree 60 Hz $10

SELSYNS

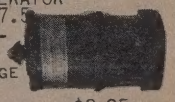
2J1G1 SELSYN CONTROL TRANSFORMER, 57.5 VAC 400 Hz; usable in pairs for remote position indication and light duty turning applications. Operable from 24 V 60 Hz with good resolution and torque. ⅛" long shaft tappered ¼", then threaded ¼". O/a 4⅜x2¼ dia; 2 lbs. #2J1G1, less connector cap $7.50; w/cap $9.50

MK II SIZE 6 SELSYNS, 115 VAC 60 Hz; sold in mated pairs for rotational and position-indication uses. 7⅛x4½ dia, 12 lbs/pair. Used-checked, various manufacturers, $45/pair

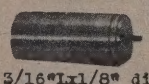
SIZE 5 SYNCHRO DIFFERENTIAL RECEIVER, 115 VAC 60 Hz; used to show the sum or difference of two angular motions. 5⅛x3⅛ dia, 5 lbs. $10.

OTHER SELSYNS AVAILABLE. WRITE YOUR NEEDS.

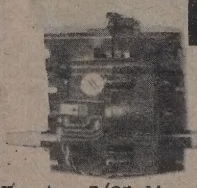
2J1H1 SELSYN DIFFERENTIAL GENERATOR NORMALLY OPERATES FROM 57.5/57.5 VOLTS 400 CYCLE BUT WILL OPERATE FROM 26 VOLT 60 CYCLE AS SHOWN IN WIRING DIAGRAM ON PAGE 31. SIZE: 2⅛x4½; WT: 8oz. PRICE WITH CONNECTOR CAPS.....$3.95



DAYSTROM TRANSCOIL CONTROL MOTOR 115 VOLT 60 CYCLE, 1 PHASE, 2 PHASE 200 VOLT CT., 3200 RPM. SIZE: 2¼x2, SHAFT SIZE: 1/16x⅛ WITH GEAR. REMOVED FROM NEW EQUIPMENT. PRICE: $5.00

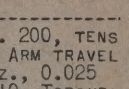


TACHOMETER GENERATOR, motor 26 V 400 Hz 2 Ø; generator 18V 400 Hz 0.3 V/1000 RPM. No load speed 10000 RPM. 2-1/8"Lx1" dia 3/16"Lx1/8" dia shaft. #TACH-SEL-MOD, $7.95



ROBOT GEAR BOX

ROBOT GEAR BOX with two electrically independent 3 VDC motors which are loosely magnetic coupled. One gear has holes with 2 diodes used as optocouplers to sense rotational speed. Has two 3/8" dia splined shafts (48 RPM @ 3 VDC). This plastic gear box could be used for light-duty robot, cart, or animation projects O/a 7¼x4¼x2⅜, 2 lbs. #WD-4955-18, $3.50 4/$11



LINEAR ACTUATOR, STAT. 200, TENS. 40, COMP. 40. ARM TRAVEL 5/16". MOTOR 115v. 400 HZ, 1600 RPM. DUTY 1/10, 0.04 HP. TORQUE: 6.7 IN-OZ. SIZE: 5x5x3¼ WT: 5 LB. AIRSEARCH#34930 USED $3.95

LINEAR ACTUATOR, STAT. 200, TENS 75-100, COMP. 75-100. ARM TRAVEL ¾". MOTOR 115v. 400 HZ., 0.025 HP 6500 RPM. DUTY 1/10, TORQUE: 3.9 IN-OZ. SIZE: 5x8¼x4¼ WT: 5LB AIRSEARCH#30146-120 USED $3.95

CHILD'S PHONOGRAPH TURNTABLE, 7" dia plastic platter with 115 VAC 60 Hz motor; selector switch for 33-1/3 or 45 RPM. Designed for child's record player. 2 lbs. BSR #M143AC37, NEW, ~~$3.95~~ $3.

SMALL RECORDER PM MOTOR, operates 4 to 12 VDC, reversible. 1/8x3/32" dia shaft; O/A 1⅛x1⅛ dia, 1 lb. #R-357141, NEW $2.; w/pulley $2.25

PRR-9 RECEIVER

AN/PRR-9 FM HELMET RECEIVER, extremely lightweight single channel radio in the 47-57 Mhz FM range; 5 mw nominal power output. Uses CR-81 type crystal (not available); 455 Khz IF. Requires 5 V 25 ma originally supplied by BA-505 battery (not available). With AS-1998 antenna and H-264 headset. 7x3⅛ x1⅛, 2 lbs. Used $38. Less AS-1998/H-264 $25. OPERATOR'S MANUAL for PRR-9, $7.50

ID-1189/PR CHANNEL ALIGNMENT INDICATOR, designed to test AN/PRR-9 and AN/PRT-4 transmitter. Has 47-57 Mhz signal generator; checks both sets' batteries. Instructions, probes, and transit case included. 12x11⅛x6, 15 lbs sh. Used, $45.00

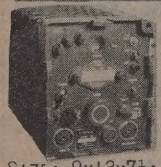
2 TO 12 MHZ TRANSCEIVERS

RT-77/GRC-9 BACKPACK TRANSCEIVER, covers 2-12 Mhz AM CW in bands 2-3.6, 3.6-6.6, and 6.6-12 Mhz; Hi-LO outputs 7/1 watt (AM), 15/5 W (CW). Receiver section has 456 Khz IF and calibration points every 200 Khz. Transmitter can be continuously tuned or two preset channels; uses 2E22 tube in power amp. Set also includes tubes 2/1L4, 3/1R5, 1S5, 3/3A4, 3Q4; requires 580 vdc 100 ma, 6.6 vdc 2 amp, 120 vdc 45 ma, 1.5 vdc 500 ma, 6.9 vdc 575 ma. RT-77 was used in field and vehicular installations with a number of power supplies designed for it such as GN-58 handcrank generator available below, PE-237 6-12-24 VDC vibrator supply, DY-88 (12 VDC) & DY-105 (24 VDC) dynamotor supplies, PP-327 115 VAC supply. 16x13 x8, 35 lbs sh. Used, $39.95; MANUAL, $8.50

GN-58 HANDCRANK GENERATOR, with legs, seat, two cranks; powers RT-77 at reduced outputs 3.6 W (AM), 10 W (CW). 39 lbs sh. Used $35.

CONNECTOR for GRC-9 as available, $4 w/set.
HS-30 HEADSET w/CD-604 cord, used, $7.50
T-17 MICROPHONE used $6.95; reconditioned $9.
J-45 LEG IRON w/J-37 KEY, used, $12.00
* *
TRANSMITTER only from RT-77, #XMT/GRC-9, $25.

38 TO 54 MHZ RECEIVER

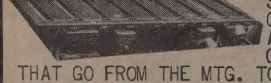


R-110 RECEIVER 38 TO 54 MHZ FM CONTINUOISLY TUNEABLE, VARIABL SQUELCH AND AUDIO, OUTPUT IMPEDANCE 600 OHMS. 4.3 MHZ. I.F. WITH TUBES 3/1U4, 2/1L4, 1A3, 2/3A5, 1S5, 2/3Q4, 2/6AK5 & 0B2. VOLTAGES REQ. 135 VDC @ 70 MA. AND 6.3 VDC 2 AMPS.
SIZE: 9x13x7½; WT: 32 LBS. USED $35.95

R-108 RECEIVER, SAME AS R-110 ABOVE EXCEPT 20-28 MHZ. USED $21.95

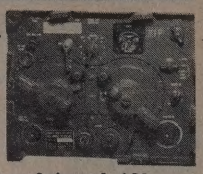
R-109 RECEIVER, SAME AS R-110 ABOVE EXCEPT 27-39 MHZ. USED $27.95

PP-282 POWER SUPPLY 24 VDC FOR R-108-109-110 RECEIVERS. MOUNTS INSIDE REC. USED $5.95



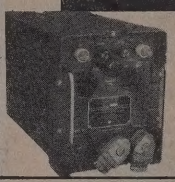
SHOCKED-MOUNTINGS FOR GRC SERIES RADIO SETS. ALL HAVE APPROPRIATE CABLES & CONNECTORS THAT GO FROM THE MTG. TO THE SET & BATTERY, BUT THEY DO NOT HAVE JUMPER CABLE UNIT-UNIT.
MT-297/U HOLDS R/T,PS,REC.,RT-70,AM-65,C434
SIZE: 33½x13½x4¼; WT: 75 LBS. USED $25.00
MT-298/U HOLDS TWO (2) R/T & TWO(2) PS.
SIZE:37½x13½x4¼; WT: 85 LBS. USED $20.00
MT-299/U HOLDS ONE RT-66,67,OR 68 & ONE PS
SIZE:18½x13½x4: WT: 50 LBS. USED $25.00
MT-300/U HOLDS (1) RT-70 & AM-65(PIGGYBACK)
SIZE:8½x13x3½; WT: 25 LBS. USED $22.00
MT-327/U holds one RT-66-67-68, one R-108-109 -110, one PP-109-110; 32 lbs sh. Unused, $25

RECEIVER-TRANSMITTER



RT-68/GRC TRANSCEIVER, 38-54.9 Mhz FM continously tunable or 100 Khz-step channels or two preset channels. Receives and transmits both voice and 1600 Hz ringing FM; range 10-15 miles. Receiver circuit has variable 1st IF 4.45-5.45 Mhz and fixed 1.4 Mhz 2nd IF; also squelch and 600 ohm audio output. Transmitter uses crystal-controlled oscillator and oscillator power amp; power output 2 watts (LO) or 15 W (HI). Also meter to monitor xmitter filaments and 90 V input. Requires external power supply available separately. With tubes 4/1U4, 2E24, 2/1A3, 2/1L4, 4/1R5, 2/1AE4, 1S5, 4/3Q4, 3A4, 3/3A5, 2/3B4, 6AK5. 9x13x11½, 42 lbs. $55.00
RT-66/GRC, as above but 20-27.9 Mhz, $27.50
RT-67/GRC, " " " 27-38.9 Mhz, $35.00

GRC - POWER SUPPLIES



PP-1175A/SR TRANSISTORIZED 115 VAC 60 HZ POWER SUPPLY, provides voltages to operate a RT-66, -67, or -68 plus a R-108,-109, or -110 receiver. Includes power connector, auxillary receiver connector, & manual. 9x7½x14, 40 lbs sh wt. Unused, original-boxed $85.

PP-112/GRC 24 VDC POWER SUPPLY for RT-66-67-68 transceivers; provides all voltages from 24 VDC 6.5 amp input. 7½x9x13, 39 lbs sh. Used $25. Unused, $35.

PP-109/GRC SUPPLY, as above but 12 VDC 13 A input; used $34.50

CX-1209 or CX-1210 CABLES f/RT-66-7-8 $10 ea.

PRC-10 RECEIVER-XMITTER

RT-176/PRC-10 RADIO RECEIVER-TRANSMITTER; PORTABLE UNIT OPERATING FROM 38 TO 54.9 MHZ FM VOICE COMMUNICATIONS. THE RECEIVER SECTION HAS AN IF OF 4.3 MHZ AND AN AUDIO OUTPUT IMPED. OF 600 OHMS. TRANSMITTER OUTPUT IS 0.9 WATTS WITH A NORMAL RANGE OF ABOUT FIVE MILES. MICROPHONE INPUT IMPED. 150 OHMS. BOTH RECEIVER AND TRANSMITTER SECTIONS ARE CONTINUOUSLY TUNEABLE. WITH CONTROLS FOR VOLUME, TUNING, SQUELCH, POINTER ADJUST AND DIAL LOCK. CONNECTOR FOR EXTERNAL SPEAKER. WITH TUBES 9/5678, 2/5672, 3/5676, 1AD4 AND 5A6. POWER REQUIRED: 135 VDC, 67 VDC AND 1⅛ VDC. LESS BATTERY CASE. ACCESSORIES LISTED ELSEWHERE. SIZE: 9½x3x10½ WT: 9 LBS.
RT-176/PRC-10 USED $29.50

RT-174/PRC-8, SAME AS PRC-10 EXCEPT 20.0 TO 27.9 MHZ. USED-COMPLETE, NOT CHECKED, $30.

RT-175/PRC-9, SAME AS PRC-10, EXCEPT 27.0 TO 38.9 MHZ. USED, COMPLETE.

AM-598 AMPLIFIER POWER SUPPLY, functions as 24 VDC supply and audio amp for PRC-8-9-10 transceivers which plugs into top. With audio cable and tubes 0C3 2/12AT7, 2/26E6, 26Z5; 11½x11⅛ x10½, 38 lbs sh. Unused $36.00
CX-2031 BATTERY CABLE for AM-598, $8.00 ea.

ACCESSORIES

CY-744/PRC BATTERY CASE f/PRC-8-9-10, $6.00
AT-272A gooseneck antenna base, unused, $2.
AT-272 FLAT RIBBON ANTENNA f/PRC-8-9-10, $3.
AB-129 RUBBER BASE f/AT-271 (PRC-8-9-10) $3.
AB-591 RUBBER BASE f/AT-271 (PRC-25-77), $4.
AM-598 SHOCKMOUNT $5. WM-46 CABLE, 10' $10.
M-29 MIC w/UG-77, $5. M-80 MIC w/UG-229 $10
HANDSETS, H-33 w/UG-77 $10. H-189 w/UG229 $12
LS-166/U LOUDSPEAKER Used $12 w/set purchase
GRC/VRC CONNECTORS, specify type and with what equipment used, $3 each w/set purchase.
PLUGS, used: UG-77, metal back $3. UG-229 $4.
CX-1211 CONN. ASSY. f/RT66-7-8 to PP112, $6.
Connector assy. sold only with set purchase.

PRC-6 WALKIE-TALKIE

RT-196/PRC-6 FM TRANSCEIVER, single channel crystal-controlled in the 47 to 55.4 Mhz range. Range: approx. 1 mile depending on terrain and conditions. Handheld unit has push-to-talk switch, volume control, ribbon antenna, carrying strap, and provision for H-33/PT handset. Uses type CR-23 crystal (not included or available). With tubes 6/5678, 3B4, 3/5672, 2/5676, and 2G21. Requires 1.5, 45, and 90 VDC. 15x5x4⅜, 6 lbs sh. Used, $18.95; MANUAL, $7.50

CY-853/PRC-6 CASE, space and padding for 42 crystals; 6⅜x6⅜xl, 2 lbs. Used, $3.00

ID-292/PRC-6 CHANNEL ALIGNMENT INDICATOR, plugs into RT-196 and indicates relative level voltages for B+ filament, osc. injection, limiter, discriminator output, and P-A grid. Also P-A current and calibrate adjust. Unit is basic VTVM with 1¾" sq. FS=500 ua-meter and 5678 tube. Power from set under test.
ID-292, unused w/manual, $22.95

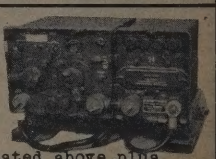
GRC/PRC BATTERY TEST

AN/PSM-13 BATTERY TEST SET; DESIGNED TO CHECK GRC AND PRC-TYPE BATTERY PACKS INCLUDING BA-270, -279, -376, -377, -386/PRC-25, -398/PRC-25, -399, AND -505. METER INDICATES BAD-GOOD (FS=1 MA). WITH ADAPTERS U-240, -241, -242, -297, -314, -315, -346 AND CANVAS CASE. SHPG. WT: 7 LBS.
PRICE: USED, EXCELLENT, $24.95

ME-61/GRC FIELD STRENGTH METER 1.4 TO 24 MHZ IN THREE RANGES. WITH VARIABLE TUNING, SENSITIVITY CONTROL, 1⅝" SQUARE METER, PHONE JACK AND ANTENNA. SIZE: 5x5x4½ WT: 5 LBS.
UNUSED, $24.95

RT-70 RECEIVER-TRANSMITTER 47 TO 58.4 MHZ FM VOICE COMMUNICATIONS. FEATURES CONTINUOUS TUNING OR TWO PRE-SET CHANNELS AND PUSH-TO-TALK TRANSMISSION. THE RECEIVER CIRCUIT IS THE DUAL CONVERSION TYPE WITH THE 1ST IF IF MHZ AND THE 2ND IF 1.4 MHZ. WITH VARIABLE SQUELCH CONTROL. 600 OHM AUDIO OUTPUT IMPEDANCE. THE TRANSMITTER CIRCUIT HAS A 500 MW OUTPUT AND AN AUDIO INPUT IMPED. OF 150 OHMS. POWER REQUIRED: 90 VDC @ 80 MA, 6.3 @ 360 MA AND 6.3 @ 160 MA. WITH TUBES: 6/1U4, 3/1L4, 2/1R5, 1S5, 1AE4, 4/3Q4, 3A5, AND 3B4. RELATED ACCESSORY EQUIPMENT LISTED ELSEWHERE.
Size: 4⅝x13x8, 22 lbs sh. Unused, $32.95

AM-65/GRC AUDIO AMPLIFIER, 3-channel audio amp for RT-70 and also used for interphone in other GRC-systems. PP-281-282 or 448 power supply may be placed inside to power RT-70. 4½x13x8, 17 lbs sh. Used, $14.95; Unused, $22.95
PP-282 SUPPLY, 24 VDC in for AM65/RT70, $5.



AN/VRC-10 RADIO SET, consists of RT-68, PP-112, MT-299 mount, CX-1211 cable, and manual described separately on this page; 90 lbs sh. Used, $85.00
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UNUSED AN/VRC-10 in wood crate ; contains units listed above plus AB-15 antenna base, MS-117/AB-24 mast section CW-206 antenna bag, UG-530 RF cable, spare fuses, hardware, etc. 182 lbs sh. Unused $118

TECH MANUALS WITH SCHEMATICS FOR:

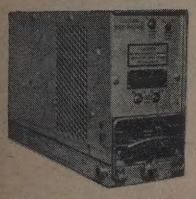
RT-196/PRC-6	$7.50		
PRC-9A-10A	$7.50	AM-598	$3.00
RT-66,67 & 68	$5.00	PP-109 & 112	$5.00
RT-70	$5.00	AM-65	$5.00
R-108, 109 & 110			$7.50

AN/VRC 13-15 OR AN/VRC 16-18, CONTAIN INFO & SCHEMATICS ON RT-66,67,68, R-108,109,110,PP-109,112, VAR. MTG. CONTROL BOX ES. $7.50

HIGH BAND • FM — TRANSMITTER — RECEIVERS • LOW BAND

R-394/U RECEIVER, 152-172 Mhz FM single channel crystal-controlled. Dual conversion unit has first IF 7.8 Mhz and 455 Khz second IF; also squelch and muting circuits. 8 ohms output impedance. Set features modular construction with plug-in units 1st RF amp, local oscillator, 1st IF amp, 2nd IF and discriminator, and audio/squelch. 455 Khz selective filter is wired in. Also has compartment for modular power supply which is listed elsewhere on this page. Includes tubes 14/5678, 4/1AD4, 5672, 5840, 5783, and 6AK6. 8½x5½x14½ 22 lbs sh. Used $10.95; Gov't recond, $19.95

R-257 RECEIVER, same as R-394 except covers 25 to 50 Mhz FM, used, $12.95



T-278/U TRANSMITTER F.M. 152 TO 174 MC APPROX. 30 WATTS, CRYSTAL CONTROL ON ANY TWO (2) PRESET FREQ. PHASE SHIFT MODUALTION 15 KC DEVIATION, CR-27/U CRYSTAL UNIT FREQ. RANGE 4750-5437.5 KC. MULTIPLIED 32 TIMES. WITH TUBES 2/3B4,3/2E24,4/5678,2/5672 AND 2/1AD4. VOLTAGES REQUIRED AS SHOWN WITH DY-93 DYNAMOTOR ELSEWHERE ON THIS PAGE. USED $14.95 SIZE:8½x4½x14½; WT: 12 LBS. UNUSED $19.95

AN/VRC-19 6 VDC RADIO SET, includes R-394, T-278, DY-100, CY-938, C-847; 100 lbs. $48.

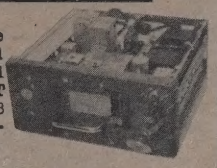
VIBRATOR POWER SUPPLIES for R-394 and R-257 receivers; fits inside receivers; 10 lb
PP-867, 24 VDC input, $4.95
PP-868, 12 VDC input, $5.95
PP-846, 115 VAC 60 Hz input, $29.95

DY-93 DYNAMOTOR POWER SUPPLY for use with T-208-278-417 transmitters. Input: 12 VDC 20 amps. Output: 380 VDC 180 ma, 225 VDC 45 ma, -25 VDC 5 ma. 8½x7x14, 29 lbs. Used $9.95

CHASSIS CONNECTORS to fit R-394-257, T-208-278-416-417, DY-93-98
Specify for receiver (P252), transmitter (P401), or power supply (P1203), $2.50 each.

CY-938 EQUIPMENT CABINET houses receiver R-257 or R-394, transmitter T-208 or T-278, power supply DY-93, -98, or -100. Aluminum; 17½x11¼x25, 40 lbs sh wt. Used $9.95

GE 'PROGRESS-LINE'

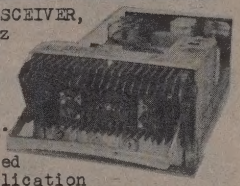


GE PROGRESS-LINE 50 WATT MOBILE TRANSCEIVER, single channel crystal-controlled in the 144-174 FM Mhz band Has #4ER25C2 receive, #4ET-21A2 transmit, and #4EP2B vibrator power supply sections. Transmit deck uses two 6146 tubes in P-A. Power supply requires two vibrators (not available) for 12 VDC operation. Internal trimmers for antenna tuning, coupling, and P-A plate; 21 tubes. 6½x14¼x15⅝, 34 lbs sh. #MA E/36N, used less crystal and cover, $45.00
S318-CCT CONTROL PLUG, $3. POWER PLUG, $2.50

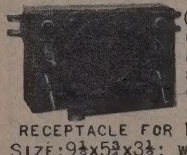
GE CONTROL HEAD for Progress-Line sets; with push-to-talk mic, squelch, volume control, and coil cord. 5 lbs sh wt; used, $13. Less mic, $4.95

MOTOROLA CONTROL HEADS, 1950's styles; similar features as above; used with mic, $11.95

MOTOROLA TRANSCEIVER

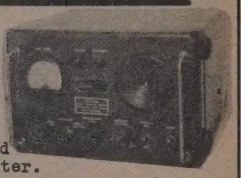


MOTOROLA FM MOBILE TRANSCEIVER, transmits in 144-174 Mhz range, receives between 450-470 Mhz. #TD6050AB transmitter section has output of 25 watts min. (144-167 Mhz), 20 W min. (167-174 Mhz) using single crystal-controlled channel. Crystal multiplication 24 times; 50 ohm output impedance. Has nine tubes including 6146 in power amp. #XRE1000-AH receiver has dual squelch "Private Line" or separate tone-controlled and carrier squelch circuits. Two crystal-controlled channels; 455 Khz final I.F. Audio output 2 watts into 3.2 ohms. With 14 tubes. #XPN-6003B transistorized power supply requires 12 VDC input to supply voltages for transmitter and receiver. Crystals and accessories not available. 6x10x19½, 28 lbs. Used less 6146 tube, $18.95 each. Schematic set, $5.00



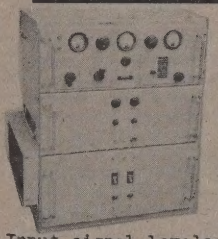
C-847 RADIO CONTROL BOX; USED TO CONTROL THE SYSTEM, HAS HEAVY ALNICO MAGNET 4" SPEAKER FOR MONITORING REC. CONTROLS FOR SQUELCH, VOLUME ON/OFF SW. PILOT LIGHTS AND RECEPTACLE FOR H-33 HANDSET WHICH HAS UG-77 SIZE:9½x5⅜x3½; WT: 6 LBS. Unused, $9.95

C-845 RADIO CONTROL



C-845/U RADIO CONTROL, used with R-394-257 receivers and T-208-278-417 transmitters. Contains three tube microphone amp with line level meter which allows the signal to be adjusted to modulate the transmitter. Also has heavy duty 4" speaker for monitoring a receiver and tone generator for signaling purposes. Controls for intercom, mic level, and speaker volume and UG-77 plug. 600 ohm input impedance. Unit includes PP-846 AC power supply which mounts inside. Requires 115/230 VAC 50-60 Hz. 8½x13¾x13½; 40 lbs sh wt. Used, $44.50 ; schematic, $2.00

400 W AM TRANSMITTER



T-368/URT TRANSMITTER, 1.5 to 20 Mhz @ 450 watts CW, 400 watts AM. Uses master oscillator, frequency multiplier, intermediate power amp, and final power amp. Also 4-400A tube in the P-A, two 4-125's in the modulator, 1500 pf and 300 pf 10 KV vacuum variable capacitors in P-A. Input signal levels: 3-5 volts FSK, 30 V max external excitation. Input impedance: 56 ohms FSK, 1000 ohms external. Requires 115 VAC 50-60 Hz 1570 W (CW) or 2200 W (AM). 41½x32 x31, 650 lbs net. Sh wt: 940 lbs in wood crate as received from government. Used-good condition but not checked, $495.00 Maintenance manual, partial repro, $15.00

'ANTIQUE' TRANSMITTER

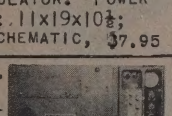
RCA ET-8003 LF TELEGRAPH TRANSMITTER, "antique" unit transmits 700 Hz tone over 355-500 Khz; 30 watts output. Designed to operate from 1500 VCT 100 ma 350 Hz power input. Keying circuit is in-line with the power input so that keying makes or breaks the power circuit. The four #10 tubes are then modulated by the line frequency and produce the 700 Hz tone. Antenna coupling set by moving plug into any one of six coil tap jacks. Has two National Velvet Vernier dials, two variometers, and 0-5 RF ammeter. 21x16x11, 30 lbs sh wt. Government- reconditioned, $79.50

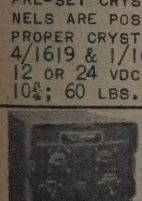
Original 350 HZ POWER TRANSFORMER for ET8003; primary 115 VAC 350 Hz, secondary 1500 VCT 100 ma. 10 lbs sh wt; unused, $10.00

RF MONITOR

ID-642/FSA RADIO FREQUENCY MONITOR, USES DIRECTIONAL COUPLER WITH IN-21B DIODE TO MONITOR RF VOLTAGE LEVEL. DC VOLTAGE IS AMPLIFIED TO TRIGGER A 24 VDC RELAY (6.5 MA 4PST) OVER A POWER SCALE OF 25-200. UNIT WAS PROBABLY CALIBRATED INTO A STANDARD LOAD. REQUIRES HN CONNECTORS. WITH TUBES: 2/0A2, 5751, 5670 6X4. AND TJ791K01 CURRENT REGULATOR. POWER REQUIRED: 115 VAC 60 Hz. SIZE: 11x19x10½; SHPG. WT: 20 LBS. UNUSED, W/SCHEMATIC, $7.95

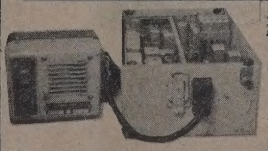
BC-604 F.M. TRANSMITTER 30 W. FREQ. RANGE 20-27.9 MBZ. 10 PRE-SET CRYSTAL CONTROL CHANNELS ARE POSSIBLE WITH THE PROPER CRYSTALS. WITH TUBES 4/1619 & 1/1624. VOLTAGE REQ. 12 OR 24 VDC & 625VDC @ 225MA. SIZE:18½x11½x10⅝; 60 LBS. PRICE: unused, $25.00



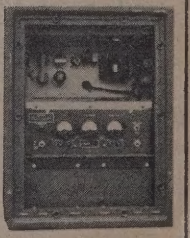


CV-278 FREQUENCY SHIFT CONVERTER designed for RTTY operation of R-392 receiver and T-195 xmitter; usable with any receiver having 450-500 Khz IF. Signal Input and Discriminator meters; 28 VDC 2 A required. 9¼x7¼x13¾, 25 lbs sh. Used $40. Power connect $6 w/set.

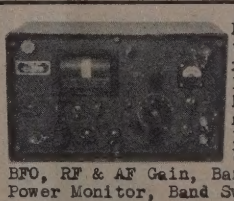
MOBILE TRANSCEIVER



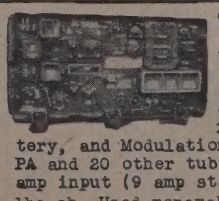
AN/VRC-51 FM MOBILE TRANSCEIVER, single channel crystal controlled in 132-152 Mhz range; 30 watt output w/6146 in power amp; 22 other tubes. Internal trimers for antenna tuning, coupling, and PA plate. Includes C-3691 solid-state power supply and control which has speaker, volume, and squelch; also interconnect cable. Requires 12 or 24 VDC; Comco mfg. 12½x6½x9, 27 lbs sh. Used, $59.50; Mic, $5.00 w/purchase.



PP-638/U POWER SUPPLY USED WITH AM-494 & AM-495 POWER AMPLIFIERS. INPUT 115/230 VOLTS 50/60 CYCLE, OUTPUT 1100 VDC @320 MA, 230 VDC @ 60 MA AND 6.3 VAC @ 5.2 A. 2½" RUGGEDIZED METERS 50 MADC 500 MADC AND 1.5 KVDC. ALSO BLOWER FOR COOLING. UPPER COMPARTMENT SIZE 15WX 9¼ H X 8½ D. SIZE: 31¾ x 20½ x 24¼; WT: 150 LBS. PRICE: RE-NEW $79.50



R-901/GR RECEIVER, 0.54 to 20.5 Mhz AM-CW in five bands; 455 Khz IF. Bandwidth 1.5 or 4 Khz; has two Collins plug-in mechanical filters. Built-in crystal calibrator and controls for BFO, RF & AF Gain, Bandwidth, Power Select, Power Monitor, Band Switch, Ant Trim; meter monitors power. Operates from 24 VDC or 1.5 V 445 ma and 45 V 30 ma; 11 sub-mini tubes. 8¾x14½x9, 25 lbs sh. Used-reparable, $145.00



T-195/GRC-19 TRANSMITTER, 1.5-20 Mhz AM-CW-FSK in ten bands, manual or auto tune. Power output 100 W (1.5-12), 90 W (12-16), 80 W (16-20 Mhz). Meters for PA grid, Cathode, Battery, and Modulation; uses two 4X150D's in PA and 20 other tubes. Requires 22-30 VDC 42 amp input (9 amp standby); 11½x22x14¼, 135 lbs sh. Used-reparable $125.

MT-851 BASE for T-195 & R-392, 60 lbs, $15. MANUAL for T-195, $7.50; MANUAL f/GRC-19, $10.

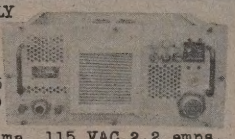
RECEIVER POWER SUPPLIES w/ SPEAKER for 115 VAC 60 Hz operation of the following
BC-453-454-455-946
R-23-24-25-26-27/ARC-5
R-10-11-15-19-22 ARC-type
BC-348 BC-639
Include dynamic speaker housed in metal cabinet with connecting cable, phone jack, volume control, BFO switch (if applicable). Output: 200/250 VDC 90/60 ma and 24 VAC 2 amps; usable with other receivers having similar requirements. Dimensions and parts vary with availability of materials. SPECIFY receiver type; 10 lbs. KIT, $32. WIRED, $40.

DC POWER SUPPLIES from 115 VAC 60 Hz input; our construction:

	KIT	WIRED
#24VDC2A, 24 VDC 2 amps, 12 lb	$17	$22.95
#24VDC4A, 24 VDC 4 amps, 14 lb	$20	$25.95

XMITTER SUPPLY

DY-94A/GRC TRANSISTORIZED POWER SUPPLY, provides 550 VDC 150 ma, 250 VDC 120 ma, 20 VDC 20 ma, 200 VDC 100 ma, and 26 V 1.7 A AC or DC from 115/230 VAC 50-65 Hz or 26 VDC input. Looks like good supply for low to medium power transmitters. 9½x11½x13½, 42 lbs sh wt. Used, $59.50; Connectors (2), $3 each.



PP-2054/GRC POWER SUPPLY for T-893/GRC-50 30 W SHF xmitter; regulated outputs +250 V 200 ma, +150 V 80 ma, +105 V 15 ma and unregulated +800 V 100 m, +650 V 60 ma, +654 V 60 ma, +360 V 80 ma, 115 VAC 2.2 amps. Has transformers 1000 V 300 ma and 435 V 370 ma, 2/6080 tubes, front circuit breaker, AC outlet, and cooling fan. Requires 115 VAC 47-63 Hz; 7½x16x17½, 67 lbs. Used, $54.95

COMPUTER SUPPLY

COMPUTER POWER SUPPLY with popular outputs 28 VDC 9.6 amps and regulated 5 VDC 5 A, 12 VDC 5A, -12 V 2 A, -6.8 V 0.8 A. Operates from 100-125 VAC 60 Hz. Supply has many useful components such as transformer rated 39.8 VCT 8.5 A and 22.7 V 12 A, front panel w/(4) 10x2-7/8x1½ heatsinks and six 2N3055 transistors, (2) KBP25005 bridge rectifiers, capacitors (3) 51000 mf and one 19000 mf 40 VDC, regulator PC card, other parts. Made in Canada for NCR. 10½x14x12, 65 lbs sh. #M32-01-775, $29.95; 2/$50.

120 V 9000 HZ SUPPLY

LAMP POWER SUPPLY, an item for the experimenter who finds the 120 VAC 9000 Hz out from 120 VAC 60 Hz input intriguing or finds the supply a good source of usable parts. Consists of two 6x4x1 heatsinks each w/2N3055, transformer w/2-4 VCT 500 ma outputs, ferrite core autotransformers, PC board. 4¾x8½x3½, 9 lbs. GE#9T69Y1500-G4, $4.95

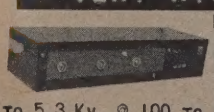
SOLA CONSTANT VOLTAGE DC POWER SUPPLIES; 19" x 6" 40 lbs. sh wt. $14.95

+ SOLA +

SOLA #	INPUT	OUTPUT
28238	180/240 200/260	200 VDC 1.5 A
28239	" "	120 VDC 1.1 A
		20 VDC 2.0 A
28323	115/208/230	120 VDC 2.0 A
28266	115/208/230	20 VDC 4.0 A

#237 CONSTANT VOLTAGE TRANSFORMER, 6.5 V 25 amp output from 90-130 VAC 60 Hz input, $15.

VERY HIGH VOLTAGE



DC POWER SUPPLY WITH 107-125 VAC 60 Hz PRIMARY. TWO OUTPUTS: -5.4 TO 5.75 Kv. @ 140 TO 300 u-A. ONE OUTPUT: -5.1 TO 5.3 Kv. @ 100 TO 270 u-A. SIZE: 12⅛x2⅛x4½ WT: 10 LBS. GE#9T63Y2029G6, USED, $10.95

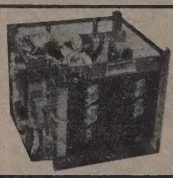
COMPUTER POWER SUPPLIES

SOLID STATE POWER SUPPLIES rated conservatively and constructed on rugged steel frames. Units have front voltage adjust ±10% running light, AC reset. Also adjustable current limiting and overvoltage protection. Power input: 115 VAC 60 Hz. Removed from equipment.

Add $10.00 to prices for "checked" units.

RATING	SIZE	Sh wt	No.	PRICE
4 V 30 A	13⅛x7x15⅛	65 lbs	926	$30.00
4 V 75 A	19⅛x7x20	125 lbs	650	60.00
12 V 5 A	9⅛x7x16	35 lbs	655	37.00
20-24 V 5.5 A	9⅛x7x20	47 lbs	332	39.95
24 V 12.5 A	13⅛x7x15⅛	65 lbs	4291	30.00
(#4291 is harmonic regulated type)				
30 V 3 A	15⅛x7x19⅛	38 lbs	889	27.50
32-36 V 4.8 A	9⅛x7x19	37 lbs	3236-48	27.95
(#3236-48 includes 12-36 V conversion info)				

DUAL POWER SUPPLY, same style as above, -32-36 V 14.7 A and -32-36 V 10.3 A; Two independent regulators w/common buss. 20x12x14, 125 lbs sh. #450, $60.00



CASH REGISTER POWER SUPPLY WITH 6 VDC GEL-CELL BATTERY OUTPUT FOR MEMORY. ALSO +6, +10, +15, AND -24 VDC FROM 115 VAC INPUT. 8x8⅛x7½; 22 LBS. SH. ORIGIN ELEC. #008-0202550A, UNUSED, ~~$45.00~~ $25.

OPEN FRAME REGULATED

COMPUTER POWER SUPPLY TRANSISTOR REGULATED OPEN CONSTRUCTION WITH ADJUSTABLE VOLTAGE 20% AND CURRENT LIMITING UNITS WHERE OVP IS NOTED ALSO HAVE ADJUSTABLE OVERVOLTAGE PROTECTION. UNITS ARE IN GOOD CONDITION-REPARABLE. ORDER BY RATING AND PART NUMBER.

RATING	SIZE	SH WT.	No.	PRICE
5v 2A	14x4½x5	16	1012-01	$10.95
5v 4A	"	16	1014-33	14.95
8v 4A OVP	"	16	1014-21	14.00
12v 3A OVP	"	16	1014-22	25.00
12v 6A	14x8½x5	23	1018-32	35.00
12v 6A OVP	"	23	1018-22	37.00
30v 3A	"	23	1018-23	22.50
30v 3A OVP	"	23	1018-33	25.00
35-40v 500W OVP, 14x8½x5, 60 LB.			1037-12	$35

FGC-29/1640 POWER SUPPLY, rated output 40 VDC 30 ma or 35 VDC 40 ma from 115/230 VAC 60 Hz input. However, the transformer is rated 180 VDC 40 ma and 6.3 V 1.7 A out. Also has 10 Hy 55 ma choke, 450 mf 50 VDC capacitor, 6X4 tube. 5½x4¼ x4½, 5 lbs sh. Used, $9.95

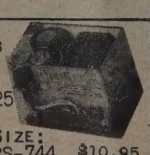
SCOPE POWER SUPPLY

HFE CRT POWER SUPPLY; HAS 6.5 KV LOW CURRENT OUTPUT WHEN USED WITH 10 VDC 1.75 AMPS DC-TO-DC INPUT CONVERTER. WILL PRODUCE 7.5 KV FROM 12 VDC INPUT. OTHER LOW CURRENT OUTPUTS OF -2500 AND -1500 VDC. TRANSISTORIZED WITH COVER AND CONNECTORS. 11x6x5½, 10 LBS. USED, EXC., $15.95

HFE LOW VOLTAGE POWER SUPPLY; OUTPUT: 10 VDC 1.75 AMPS, ADJUSTABLE -1 V. INPUT: 115 VAC 60 Hz. TRANSISTORIZED WITH FUSE AND CONNECTOR. 10½x6¼x4; 12 LBS. REMOVED F/EQUIP., $7.95

HFE CRT AND LV POWER SUPPLIES AS SET, $20.00

BREAKER 12.5 VDC 2.5 AMP POWER SUPPLY; 4 AMP SURGE, 4 AMP CIRCUIT BREAKER. 4-5/8x2½x6½; SHPG. WT: 6 LBS. #13-110, NEW, $20.



MICROCOMPUTER POWER SUPPLY, USES TWO 3-TERMINAL REGULATORS AND A 723 WITH TIP3055 TRANSISTOR. INPUT: 115 VAC 60 Hz; OUTPUT: -25 VDC 180 MA; -5 VDC 800 MA, -15 VDC 1.25 AMPS. WITH SCHEMATIC. SIZE: 3⅛x5½x4; SHPG. WT: 10 LBS. #ECRPS-744, $10.95

UNUSUAL TUBES for collectors and experimenters. Filaments checked but not guaranteed.

JAN 218 RECTIFIER TUBE, 1/2 wave high vacuum; jumbo 3-pin base. 15⅛"Hx5" dia $10.

250TH-R TRIODE w/bad filament 4-pin base, 10"Hx5¼ dia, $8.

JAN 705A RECTIFIER, 4-pin base. 5"H x 2¼" dia. $5.

JAN 715B PULSE AMP TETRODE 4-pin base, similar shape as 705A; 5½"Hx2⅛" dia. $6.

WESTINGHOUSE CL-2 TUBE WITHIN-A-TUBE, 12⅛"Hx2" dia $7.

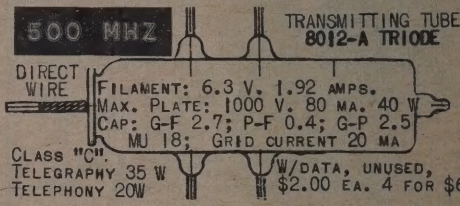
MAGNETRONS

MAGNETRON TUBES LESS EXTERNAL MAGNETICS. USED, $24 EA. SPECIFY:
2J26 (2992-3019 MHz); 2J28 (2939-2965 MHz);
2J29 (2914-2939 MHz); 2J39 (3267-3333 MHz);
2J61 (2992-3100 MHz); 2J62 (2914-3019 MHz);
725A (USED IN APS-4 RADAR)

S-300 TUBE (OPEN FILAMENT), 10" LG. 3" DIA. As-is, $4.

500 MHZ

TRANSMITTING TUBE 8012-A TRIODE


DIRECT WIRE
FILAMENT: 6.3 V. 1.92 AMPS.
MAX. PLATE: 1000 V. 80 MA. 40 W
CAP: G-F 2.7; P-F 0.4; G-P 2.5
MU 18; GRID CURRENT 20 MA
CLASS "C"
TELEGRAPHY 35 W
TELEPHONY 20W

W/DATA, UNUSED, $2.00 EA. 4 FOR $6.

8025 TRIODE, same as 8012 but 4-pin base, $3.

ELECTRONIC PHOTO-FLASH TUBE R4330 SYLVANIA, OPERATING VOLTAGE 2250, 6 FLASHES PER/MIN 100 WATT-SEC/FLASH MAXIMUM, PEAK LIGHT OUTPUT 12,000,000 LUMENS, INTERGRATED LIGHT OUTPUT 3500 LUMEN SEC. FLASH. $10 OCTAL CER.SOC. 50¢

THYRATRON

GE #4JS1 SOLID-STATE THYRATRON, used-subject to test $9. Amphenol #146-106 SOCKET for 4JS1, C6J, $2.

FIELD TELEPHONES

TP-3 SOUND-POWERED FIELD TELEPHONE, portable hand-ringing magneto type. Two or more can be used in two wire system. Signaling range 15 miles; voice range less than 2 miles. With carrying case and strap. 8x10x3½, 19 lbs. Used-checked $55.

EE-8 FIELD PHONE, similar to TP-3 except requires two "D" cells instead of sound power and has extended voice range. WRITE

H-102 FIELD PHONE, similar to above except requires 3 and 6 VDC; 15 lbs. Used, $30.00

24 VDC 6 AMP SUPPLY

24 VDC 6 AMP POWER SUPPLY originally used in Xerox equipment but usable to power R-392 receiver and other equipment. Requires 105-125 VAC 60 Hz input. 4x9½x8½, 20 lbs. #AS-59134, used-checked, $24.95

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12 VDC 3.5 AMPS and 4 VDC 17.5 AMPS from 115 VAC 60 Hz input; has current limiting and overvoltage protection. 4 V output adjusts to 5 V; 14x8½x6, 35 lbs sh. #9566WC, $30.00

#9566-LC, same as above power supply only less regulator cards. Has output transistors and heatsinks; nice foundation, $20.

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230 VDC TRANSISTORIZED POWER SUPPLY, 115 VAC 60 Hz input. Units marked "200 VDC" but they test at 240 VDC 300 ma. 5x4x5, 15 lbs. #3930, NEW, $22

CATHODE RAY

CRT'S, pull-outs or unused.

2AP1	$17.50	5AP1	$10.00
		5ABP1	30.00
3ACP7	15.00	5AHP7	30.00
3ADP1	25.00	5BP1	25.00
3BP1	17.50	5BFP7	35.00
3CP1S1	3.00	5CP1/7	15.00
3DP1	6.00	5EDP7	28.00
3E33P7	20.00	5CLP11	35.00
3FP7	6.00	5FP7	12.00
3RP1A	35.00	5FP14	15.00
3HP7	3.00	5GP1	15.00
3JP1	12.00	5JP1/2	12.00
3JP12	12.00	5NP1	15.00
3RP1	25.00	5UP1	35.00
K135P7	25.00	7BP7	15.00
4MP1	35.00	7CP7	15.00
4FP7	25.00		

* * * * * * * * * * * * * * * *

5DEP31 FLAT-FACED CRT, used in Heath scopes; replaces 5UP1 with simple socket wiring change. NEW ~~$28~~ $17.
SOCKET for 5DEP31, $2.50

TUBE SHIELDS & SOCKETS for 3BP1 or 3RP1 CRT's $5.50 ea
Shield only $4/Socket $2.50

SHIELD FOR 5CP1, 5" FACE, 2¼" NECK, 14" LONG, $5.00
SOCKET 5CP1 $3; 5BP1, $2.50
MU-SHIELD FOR 2" CRT, $6.95

SPECIAL TUBES

USED CHECKED; PULL-OUTS

$1.50	$1.75	$2.50 ea
5651	6005	5/$10.
5687	6099	6JS6/6LR5
5751	2050	
6004	5654	- - - - - -
5814	5749	6080 p-o $4.
6096	5750	3B28 p-o $6.
5672SL	5763	6550 p-o $5.
5676SL	6201	- - - - - -
5678SL	6112	6032 IMAGE
5840SL		TUBE NEW $10

U=USED, CHECKED; UN=UNUSED.

1AE4	U	$1.50	866 U $4.50
2C43	U	$12.	- - - - - -
2C46	U	10.	954/955/956
2K25	U	18.	958/991
3C22	UN	10.	1616/1619
726B	U	13.	1624/1626
4J31	UN	28.	Used $1.50
5J33	UN	25.	Unused $2.50
5933/807W	u	$5	- - - - - -
250TH	U	40.	1625 U $2.50
6159	U	$4.	Un 4.50
100TH	U	27.	1629 U 2.50
807	U	3.	5A6 U 4.50
814	Un	8.	6L6GC Un $4.
829B	U	10.	6BQ5 U 2.00
832A	U	8.	Un 3.00
808	Un	$2.50	6BA7 Un 3.00
			6DC6 Un 4.00

6146B, NEW mfg., $8.50

STANDARD TYPES

USED, $1.50; UNUSED, $2.50

0A2 0B2 0B3 0C3 0D3 0Z4
1A3 1A4 1A5 1A6 1A7 1B3 1B4
1B5 1C5 1C6 1D5 1E7 1F4 1F3
1G6 1H6 1J3 1J6 1K3 1L4 1N5
1N6 1P5 1R4 1R5 1S2 1S4 1S5
1T4 1U4 1X2 1V2 1LA4 1LA6
1LC5 1LC6 1LH4 1LN5

USED, $1.50; UNUSED, $3.00
3A4 3A5 3B4 3Q4 3S4

2X2 used, $1.50; unused $3
2E24 or 2E26 used, $3.00
2E22 or 5A6, used, $4.50

USED, $1.50; UNUSED, $2.50
5R4G 5T4 5T8 5U4G 5U8 5V3
5V4 5W4 5Y3G 5X4 5Z4

USED, $1.50; UNUSED, $2.50
ADD 25¢ EA. FOR METAL TYPE.
6AB4 6AB7 6AC5 6AC7 6AF3
6AF4 6AF5 6AF9 6AF11 6AG5
6AH4 6AK5 6AK6 6AL5
6AQ5 6AQ7 6AN5 6AN8 6AR6
6AS5 6AS6 6AS7 6AT6 6AU4
6AU5 6AU6 6AU7 6AY3 6AW8
6AV5 6AV6 6AX4 6AX5
6BA11 6BC5 6BC8 6BE3
6BF5 6BH6 6BJ3 6BK4 6BK5
6BK7 6BL7 6BN4 6BN6 6BQ7
6BQ6 6BX7 6BU8 6BZ5 6BZ7
6CB5 6CB6 6CF6 6CG3 6CG8
6CG7 6CG8 6CL6 6CM7 6CS6
6CS7 6CU5 6CU8 6CY5 6CY7
6CX8 6DA4 6DE6 6DK6 6DK7
6DG6 6DQ5 6DQ6 6DN6 6DN7
6EA4 6EA7 6EB8 6EH4 6EJ7
6EM5 6EM7 6EU7 6EW6 6ES5
6FQ7 6FY7 6FW5 6FM7 6GF7
6GH8 6GK5 6GJ7 6GW6 6GM6
6HA5 6HB7 6HM5 6JH6
6JT8 6JU8 6KA8 6KD8
6KZ8 6LM8 6LU8 6SA7
6SC7 6SD7 6SF5 6SH7 6SJ7
6SK7 6SL7 6SN7 6SR7 6ST7
6SU7 6ZY5

IF YOU DON'T SEE WHAT YOU NEED LISTED, PLEASE WRITE.

Many other tubes in stock. No complete list available. WRITE us your needs. WE WILL SHIP "USED-CHECKED" TUBES IF "UNUSED" SOLD OUT, UNLESS YOU SPECIFY "UNUSED ONLY"

USED, $1.50; UNUSED, $3.00

6A5 6A6 6A7 6A8
6B6 6B8 6C4
6C6 6F5 6F8 6G6 6H6
6K4 6K6 6K7 6K8 6J4 6J5
6J6 6J7 6J8 6L4 6L7
6N4 6N7 6Q7 6T8 6T7 6T4
6U6 6U8 6V6 6V8 6V7
6V3 6W4 6W6 6Y6 6Z7 6X5
6X4 6X8 6Z4

USED, CHKD., $2. UNUSED, $3

7A4 7A5 7A6 7A7 7A8 7B5
7B6 7B7 7B8 7C4 7C5 7C7
7E7 7K7 7L7 7T7 7X7
7V7 7W7 7Q7 7S7 7Y4
7Z4 7AD7 7AU7 7AH7 7AG7
14A5 14A7 14B8 14C5 14C7
14E6 14F6 14F7 14N7 14R7
14S7 14W7 28D7

USED, $1.50; UNUSED, $2.50
ADD 25¢ EA. FOR METAL TYPE

12A5 12A6 12A8 12C8 12B4
12D4 12H6 12J5 12J7 12K7
12K8 12L6 12Q7 12W6 12X3
12Z3 12AC6 12AF6 12AH7
12AL7 12AU7 12AX4 12AX7
12AZ7 12BA6 12BA7 12BE6
12BH7 12BF6 12CA5
12DQ6 12SF5 12SG7 12SH7
12SJ7 12SK7 12SL7 12SN7
12SR7

USED, $1.50; UNUSED, $2.50

8BQ7 8B10 9KZ8 10EG7 10DE7
15KY8 17D4 17BF11 17AX4
17GW6 17DQ6 19AU4 19T8
21JV6 21GY5 22JM6 23Z9
25L6 25W4 25DN6 25BQ6 25Z5
25Z6 32L7 35B5 35C5 35L6
35A5 35Z3 35Z4 35Z5 35Y4
50A5 50C5 50C6 50L6 50X6
50HK6 70L7 117L7

USED-CHECKED, $3 ea: 26A6, 26A7 26D6 26E6 26C6
-USED-CHKD $2.50; UNUSED $4
9001 9002 9003 9004 9006

OLD TUBES as available
USED, $2.50; UNUSED $4.00

19	24	27	30	31	32
33	34	35/51	36	37	
38	39/44	41	46	48	
52	55	56	57	58	76
77	78	79	81	85	89/Y

- - - - - - - - - - - - - - -

USED-CHKD $3. UNUSED $4.50
10/VT-25 22 42 47 80

- - - - - - - - - - - - - - -

71A UNUSED-BOXED, $5.50

- - - - - - - - - - - - - - -

* * * * * * * * * * * * *

"EYE" TUBES, used, checked
6U5/6E5 or 6AL7, $5.00 ea

811 checked $7.50

USED, CHECKED, (WRITE) 813

837 USED, CHECKED, $4.00

POWER AMP tubes, used-chkd unless otherwise noted; (stt)- subject-to-your-test

* * * * * * * * * * * * * * * *

2C39A, 6 V fil., $6.00
3CX100A5, 6 V fil., $7.50
3CX100A5 unused $18.00
4X150D, 26 V fil., $10.00
4X150G, coaxial, (stt) $20
4X250F, 26 V fil., $12.50
4-65A/8165, (stt), $18.00
4-125A/4D21, (stt), $32.00
4E27/5-125B, (stt), $24.00
4E27/5-125B, unused, $30.
5894, (stt), $22.00

* * * * * * * * * * * * * * * *

BALLAST TUBES and THERMAL RELAYS, $1.75 each:
1TF10 3-16 4-25 6-4
6C10 7H-4B 9H4 10T1
TJ601K1 26NO-# 115NO-#

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TOTAL			

MINIMUM ORDER $5.00

RELAYS

DELTROL 105ML MAGNETIC LATCHING RELAY, one SPST norm open; other SPST norm clsd. Actuates 15 VDC min. Octal base. 2x3¼x2, removed $3.95

2PDT 48 VDC 3700 ohm coil; 5/8x1-7/8. MHX124 used $1.

4PDT 48 VDC 3700 ohm coil; 1-5/8x2. MHX4069 used $1.

2PDT 26 VDC 675 ohm coil, 2 amp; sealed, solder hooks. 3/8x1¼x¾, #30-01G used $2.00

2PDT 26 VDC 830 ohm coil, 2 amp; sealed, solder hooks. 3/8x1¼x3/8, #J26L4H6A $2.50

OMRON 3PDT RELAY w/24 VDC 650 ohm coil; 2 A contacts. 11-pin solder/plug-in lugs. 1x1½x2½; #OM-MY3 unused $2.

Sealed SENSITIVE RELAY, 50 ohm 28 ma coil; DPDT contacts. Solder hooks; 1x1x2½. #R400-2B-50, $2.95

90 V 60 Hz 3PDT octal KA4187 $2.

DPDT 115 V 60 Hz 5 A contacts; octal. KR5737 $2.50

4PDT 120 VAC, 3 AMP CONTACTS; 28 VDC 3 A RES. PLUG-IN SOLDER. ¾x1x1½, #KH4695, $1.50

4PDT 24 VDC, 120 VAC 3 A 24 VDC 3 A RES. CONTACTS. PLUG-IN SOLDER TYPE. ¾x1x1½, #KH-4703, $1.75 EA.

ALARM PC BOARDS w/soldered relays, 3-LED's, transisters, etc; 4½x1½x6 #556015, 2-Sigma 70RE22ST-1000 DPDT 12 VDC relays w/2 A 28 VDC/115 VAC contacts; $3.25 #556168, 2-P&B R10S-E2-Z4-J500 sensitive relays, 500 ohm 9 ma coil; 4PDT 2 amp contacts, $3.75 #556-01R, one P&B R10-E49-04-3 4PDT relay, 12 VDC 1000 ohm coil, 2 A; also Klixon 2 A cir-breaker, $3

12 VDC 4PDT relay simalr to P&B KHU-series. 115 VAC 3 amp contacts; designed for PC board socket. #MEND-124P, $2.95

MINITURE PLUG-IN, 28VDC,600 OHM,DPDT 2 AMP.FILTORS 1060 6555-1;#5945-987-8401 $3.00

MAGNACRAFT SPDT, 12 VDC 10 amp contacts, 100 ohms. Open frame; 1¾x1¼x1. #88X-150A NEW $2.50 ea.

SENSTIVE RELAY, 6 VDC, ONE POLE MAKE AND BREAK. 600 OHMS. 2⅜x2⅜x1⅛. #ZA/CAN1304 PRICE: $1.00

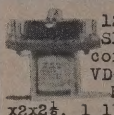
SENSITIVE, SPDT 6-12 VDC 1500 ohms, contact adjust. 2⅜x2½x2½; #RM39-1901, $1.00

SENSITIVE RELAY, 300 ohm coil res; operates @ 2.05 VDC. #K111801-1, $2.00

PETER PAUL VALVE w/120 V 60 Hz 9 watt coil; 1/8" orifice, 11½"L hose. SER-GH 90 psi; 2 lbs. #PP-32NfDGW, unused, $4.95

ASCO RED-HAT VALVE, 3/8" air orifice/pipe; 120 V 60 Hz 6 W. 2 lbs; unused, $5.

POLAR RELAY, Type 255A, various manufacturers; black or grey case. 2⅝x5⅛x2¾, 3 lbs. #D163119A NEW $3.25



12 VDC CONTACTOR, SPST n.o. 27 ohm coil; contacts 28 VDC 50 amps. P/o MT-297 mount. 3½ x2x2½, 1 lb. #GH-1679 $4.

115 VAC 60 Hz COIL 25 amp @ 28 VDC/115 VAC contacts; solder terminals. 1⅝x3x1⅝; Kurmelec #26S20/2054 used $5.

OPEN FRAME DPDT RELAYS 10 amp contacts; size 2¾x1-5/8x1-5/

#K104/HRX-1 CERAMIC 24 VDC no aux contact. NEW $4.50

#DP-11510 115 VAC 60 Hz, no aux contact. Used, $7.50

P&B PR-80164 OPEN FRAME, SPST n.o. 12 VDC; contacts 120 VAC 5 A. 2⅛x 2⅛x2¼, unused, $2.50

ROTARY RELAY 28 VDC 4-wafer horiz-shaft; 1/2-break, 2/1-make 1-break, 1/3-make 2-break. 3-1/8x2x2 #K101/6 $3

ROTARY, 28 VDC two wafers vert-shaft; 1-make 1-break, 3-make. 2½x2x1¾ #K102, $2.75

ROWAN CONTACTOR, TWO POLE CONTACTS RATED 15 A 250 VAC, 10/15 A 100/50 VDC. COIL VOLTAGE 100/115 VDC. 3-3/8x2½ x2½. ROWAN #FE20, USED, $2.

RELAY 1PDT & 1PST, CONT. 28VDC 1A. MAX. PICK UP .9MA, DROP-OUT.1MA. 16000 OHMS OCTAL BASE. SIG#80110 $2.95

SPDT, SINGLE BREAK, 28 VDC 1 A. CONT. 800 OHMS DC COIL, 3MA PICK-UP, 1.5 MA HOLD, .75MA. MIN. OCTAL BAS SIG#77912 $2.95

ADVANCE SEALED RELAY 3 STUD MOUNTING, SOLDER TERMINALS. SIZE: 1½x2x1½; 2 oz. PT#420-68-0211; 4PDT 26.5 VDC, RES. 325 OHMS, 2 AMP. CONT. $1.50

STRUTHERS-DUNN CONTACTOR, 12 VDC coil, 24 VDC 50 A contacts. 3½x3½ x2¾, 2 lbs sh. #KS5722L $3.95

GE#3SBW1001A2 SPDT 9.6-15.8 VDC relay 206 ohm coil; used in GE mobile transceivers. F/solder or socket connections. 1x1 x¾. New, $1.50. 24/$25.00

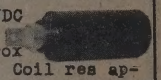
ROTARY RELAY 28 VDC, operates at 15 V; holds at 5 V. 2½x 1-3/8x2, 2 lb. #5533/HK22, removed, $2.

SPST 24 VDC OPEN FRAME, 25 amp contacts; 3-1/8x1-3/8 x1½. #B-2A-OPF unused $1.75

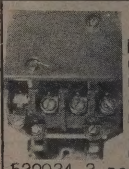
P&B R10-E1-Y2 DPDT 12 VDC 1 AMP sensitive relay; clear plastic case, solder type w/socket $2

DELTROL #20765-83 DPDT 12 VDC 6 A; plastic case, PCB mount. 1-1/8x½x1, NEW $2.50

GUARDIAN DPDT 115 VAC ¼ HP 10 A; solder terminals, plastic case. 1½x1⅝x1½. #A410-361342, NEW, $2.50



POWERFUL 12 VDC SOLENOID, ⅝" max draw approx -very strong. Coil res approx 0.75 ohm; we recommend a capacitor discharge-type DC supply for this. Requires 1" threaded dia nut for mount. 4x1½ dia; 2 lbs sh. #12V-SOLWIND unused $3.



ROWAN CONTACTORS COIL 110v 50/60HZ FULL LOAD RUNNING CURRENT 10 AMP. LOCKED ROTOR CURRENT 60 AMP. 600 V. MAX.

532934 3 POLE USED $4.95

532935 4 POLE USED $5.95

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LEDEX

LEDEX HEAVY DUTY SOLENOID #S-8210-025, 8-position 45° stroke, 28 VDC Starting torque: 5 lb-in @ 35 watts (15 lb-in holding) continuous duty. Upto 32.8 lb-in starting torq. @ 700 watts 1/20 duty. 7S size: 2¾" dia x 1-7/8" with ⅜"x3/8" dia. shaft. 4 lbs. Unused, $4.95

OPEN FRAME, SPDT 5.5-7.5 VAC coil; CONTACTS RATED 5 A 115 VAC. 1¾x1x1-3/8 #5945-233-1398, $1.25

ALLIED CONTROL T255X-18, coil 115 VAC 2580 OHMS. GOLD-PLATED DPDT CONTACTS RATED 5 A 29 VDC. ¾x-7/8 x1-3/8. UNUSED, $3.00 EA.

4PDT RELAYS, 110 VDC, heavy contacts. 2x2x1¼. Removed. #DOX187T, 5000 coil, $2.00 #DOX137T, 24 VDC 230Ω $1.50

DUAL COIL each 3PST; one 24 VDC, other 48 VDC. PCB mtg. 2¾x½x1½; #116-2601, $2.50

TIME DELAY/SEQUENCE RELAY, has 3-SPDT & 1-DPDT 12 VDC 6 A. relays. Delay sequence ON/3.5s/5.0s/10 sec. Solid-state w/24 V 1 amp transformer, 250 mfd 50 VDC cap. 115 VAC 60 Hz input. 7¼x3¾x3¼, 3 lbs sh. #140-P197C $6.95

SIGMA DC RELAYS; OPEN-FRAME, 2 AMP CONTACTS, 1⅛x2½x1⅛ REMOVED F/EQUIP.

#41F1000S-SIL 12 VDC, $1.50

GUARDIAN ROTO-MITE STEPPER, 12 VDC 12 position 3 amps resitive. 3x 1½x1¼; #705-12P-12D NEW $4.

LEDEX PUSH-PULL SOLENOID, 24 VDC short-stroke flat-face; size 5, 1-7/8" dia. 2 lbs. #124-033-001 NEW $3.

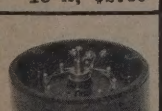
* * * * * * * * * * * * * * *

DOLLAR DAZE RELAY PC BOARD, 3-SPDT 12 VDC relays in 1x5/8x2¾ plastic cases $1.50

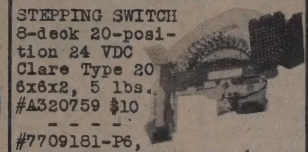
45-83

RHEOSTAT CONTROL UNIT FOR HEATED CLOTHING; 100 WATT 5.75 OHM RHEOSTAT MOUNTED IN CONTROL BOX WITH INDICTOR KNOB ALSO ON/OFF SWITCH & DUAL LOCKING TYPE SOCKETS FOR INPUT AND CONTROLLED OUTPUT VOLTAGES. SIZE:5x4x2; WT: 3 LBS. TYPE C-IC UNUSED $2.95

E-T-A CIRCUIT RESET push switches, type 45-700-P. Fits into 3/8" hole; requires 2" depth. O/A 1¾x2⅝x½; Used. 250 VAC 5 amp, $2. " " 15 A, $2.50



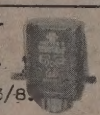
MUTER 433-AC 10K OHM POT, 1930's-40's precision pot; ¼" dia shaft. 3¾x5¼" dia. Unused $4.



STEPPING SWITCH 8-deck 20-position 24 VDC Clare Type 20 6x6x2, 5 lbs. #A320759 $10

#7709181-P6, 9-deck 25-pos 24 VDC $7.50 #PW155511 type 44, 5-deck 10 position 24 VDC, $6.95

ELECTROL 5 VDC 280 ohm REED RELAY; 2½x¾x⅝. #R-4376-2 $2



P&B KR-4175-1 DP-DT PLATE RELAY; sealed metal can, requires octal socket. 2⅜x1⅛x1-3/8. Unused, $2.00

P & B 3PDT PLUG-IN TYPE RELAY WITH 24 VDC COIL. 120 VAC 10 A. CONTACTS. #KUP14D15, w/SOCKET, $2.95

AC CONTROL RELAY, 120 VAC COIL; SPST N. OPEN 10 A. AND SPST N. CLSD. 10 A. CONTACTS. SEALED CAN, SOLDER TERM. 3 STUD MTG. 2¼x 1¾x1⅛. #7321/6717, $2.50

ROTARY SOLENOID has 48 VDC coil and 3/1½" dia wafers w/complex switching action. Sold for solenoid only. Ledex #B-61818A used $2.00

RHEOSTATS

RHEOSTAT VALUES: FIRST SET OF NUMBERS AFTER RHEO-PREFIX IS THE WATTAGE. YOU INDICATE DESIRED OHMS IN SECOND SET. SCD= SCREWDRIVER ADJUST.

#RHEO-25W-(ohms), $1.25

1	2	5	6	10
12	15	25	35	50
	60	75	100	125
175	200	250	300	350
400	500	600scd	1K	1500
2500	3500	5K	10K	20K

#RHEO-50W-(ohms), $1.75 ea

6	8.5	12	15	16
17.5	20	30	35	45
50	60	150	200	225
375	220	500	2.5Kscd	10K

#RHEO-75W-(ohms), $2.25 ea

15	25

#RHEO-100W-(ohms) $2.75 ea

20	100	500	1500	3.5Ksc

#RHEO-150W-(ohms) $3.50 ea

0.5	10	750

300 WATT 0.2 ohms, NEW, $10

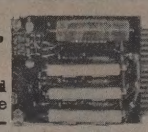
MIRRA 25 WATT "ANTIQUE" POTS w/ knob and pointer. Looks like those used in 1920's radios. Specify ohms: 6, 250, or 400. Unused, $4.50

10-T HELIPOTS

10-TURN HELIPOTS 2"lx1⅛" dia; ¼" dia shafts. Used. 10K OHMS 3-term 5%, ¼"L shft $3 30K OHMS 3-term 3%, ¼"L shft $3 50K OHMS 3-term 5%, 1/8" sht $3.

MODEL RB DUODIAL counter dials for helipots, $4.00

DAVEN 50KΩ ATTENUATORS, used: #CP800/50K, 12-step 5%, $4.50



REED RELAY CIRCUIT BOARD, 3/500 ohm and one 5K ohm 10-15 VDC reed relays w/large 1/8x1/16" contact area. Also one 26 VDC DPDT sealed relay 3/8x¾x7/8 #792-312, unused, $3.95

CRYSTALS

FT-241 CRYSTALS f/BC-604, 684; channels 0-79. No choice 3/$1. Choice $1.50

200 KHZ FT-241 XTAL, $3.50

1000 Khz CRYSTAL, temp. coeff. 0.0001% (±10 Hz/°C. Octal base; f/BC221-TS323-LM21 freq. meters. Socket wiring may be changed. $12.

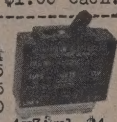
JK-02 CRYSTAL OVEN FOR CR-26 CRYSTALS, OPERATES FROM 6.3-24.2 V. AC/DC, OCTAL BASE. MOTOROLA #2518I001 FOR ONE CRYSTAL AS USED IN R-394-257 RECEIVERS. $1.95 MOTOROLA #2518I003 FOR TWO CRYSTALS AS USED IN T-278-208 ETC. TRANSMITTERS $2.50

CIRCUIT BREAKER

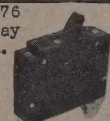
AIRCRAFT CIRCUIT BREAKERS, 24 to 30 VDC. AN-3160 is toggle style. AN-3161 push-button type. Removed.

AN3160 25, ½ or 50 amps, $1.95 each

AN-3161 5, 10, 15, or 20 amps, $1.00 each.



HEINEMAN MODEL AM12HK, 2½x2½x2¼ 12 VDC 3 A $1.25 50 VDC 3 A $1.35 50 VDC 40A $1.50 AM1516 50 V 100A 4x3¼x1 $4. AM12 115 VAC 60 Hz $1.50 ea AMPS: .93, 1.75, 4.2, 5.15



AIRPAX UPL1-11-676 65 VDC 45 A; delay 51, trip 56.25 A. 2½x2½x2¼. NEW $5.

#UPG1-1REC2, 65 VDC 1.25 amps; delay 51, trip 1.57 amps. Aux switch 10 amp 250 VAC. 2x⅝x2¼, $3.00 HEINEMAN AM33MG3, two pole 115 V 10 A; 1½x2½x2¼ $2.50

HEINEMAN CD2 type CIRCUIT BREAKERS, ganged two pole; 4⅝x2x4 2 lbs. NEW

#CD2-Z10-1, Rt 0.035 A DC Cur P. Lt 68 A 270 VAC 60 Hz Cur 3. $4.00

#CD2-Z74-2, 10 A 132 VAC 60 Hz T.D. 2; 125 A 10 VDC T.D. 3. $4.25

#CD2-A3-DU, two 18 amp 240 VAC T.D. 1. $4.50

P&B #375-207-101, 7 amp 250 VAC or 32 VDC max. Recessed button. ½x1⅛x1½. NEW, $1.25

HEINEMAN CIRCUIT BREAKERS: #AM2511M6, 230 V 3.7 amps 3¾x3¾x1, used $2.25 ea #JA2-A8-A, 240 VAC; hold 17 A, trip 21.25 A. $2.

MAGAZINES

We carry current issues of CQ $2.00 QST $2.50 Ham Radio $2.50 73 $2.50

BOOKS & TECH MANUALS

$3.00 each

* * * * * * * * * *

AM-598
PP-867-868
-869
PP-846
DY-93-98-100
ARC-27 O.I.
ARN-59 O.I.

$5.00 each

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PP-1175
FU-143C
RD-60
AN/GSC-1
I-208
AN/PDR-27

$5.00 each

RT-66-67-68
RT-70
AM-65
R-520 (mil-Zenith Transoceani
BC-191
BC-375
RU-19
BC-221AH only
PP-281-282
-484 repro
PP-804
PP-109-112
MN-26

$7.50 each

BC-312-342
BC-603-604
SX-28 repro
BC-652-653
BC-659
BC-620
BC-1000
BC-1335
AN/PRC-6
PRC-9A-10A
AN/GRR-5
R-108-109
-110
R-257
R-394
T-278-416
AN/ARN-12
AN/ART-3

FGC-20 & 21 contains TT-98, -99,-100 and PP-978, $10.

SCHEMATICS

REPRODUCTIONS of schematics $1.50 and up. WRITE.

TEST EQUIPMENT MANUALS

AN/TRM-1	repro	$10.00
AN/URM-25D	repro	10.00
AN/URM-25F	repro	10.00
AN/URM-26B	repro	12.00
SG-12/URM-48	repro	12.00
TS-403/URM-61	repro	12.00
TS-621/URM-52	repro	10.00
FR-5/URM-80		7.50
TS-510/USM-44	repro	10.00
AN/USM-50	repro	10.00
AN/USM-105	repro	17.00
AN/USM-116	repro	10.00
AN/USM-117	repro	15.00
AN/USM-140	repro	17.00
FR-149/USM-159	repro	10.00
BC-221 f/most models		7.50

Reproductions $8.50 each:

ME-6D	ME-26	OS-8
SG-92	TS-148	TS-352
TS-375	TS-382	TS-433B
TS-497B	TS-505	TS-1060
	IP-173B	PRM-10

TV-2, -7 or -10A $10 ea.

TEK G	$6.00	TEK H	$6.00
W	6.00	1A1	8.50
1A2	7.50	1A4	7.50
1A5	7.50	130	6.00
131	6.00	132	6.00
453	8.50	556	8.50

CA partial repro, 8.50

HICKOK 1805, part-repro $15

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TOOLS & TECHNIQUES, $4.95
AUDIO FREQ TESTERS, 4.95
RADIO FREQ TESTERS, 4.95
IC TEST EQUIPMENT. 4.95
TI SEMICONDUCTOR MEMORY BOOK (1975), 272 pp, $1.00

TMMS: All manuals include maintenance info & schematic unless noted otherwise. O.I. Operating info only N.S. No schematic repro -Partial reproduction w/operating, maintenance info & schematic.

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AN/ARC-5 BENCH TEST and ALIGNMENT, covers necessary info to align R-23A, R-148, R-25-26-27 receivers; T-18 thru T-22 xmitters; and MD-7 modulator. W/schematics; repro. $7.50

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AN/ARC-27-55		$15.00
AN/ARC-38	repro	17.00
AN/ARC-38A	repro	20.00
RT427/ARC-39	repro	10.00
AN/ARC-44		8.50
ARC-60 (R19-CV431)		8.50
ARC TYPE 12 including R-10-11-15-19, T-11-13, and related equip.		8.50
AN/ARN-30	repro	10.00
R-648/ARR-41	repro	15.00
AN/ART-13 transmitter only,	repro	12.00
AN/APR-4	repro	10.00
AN/GRC-9		8.50
AN/GRC-10		8.50
AN/GRC-19		10.00
AN/ARR-52	repro	17.00
R-395/PRD-1	repro	15.00
AN/TRC-1 (T-14, R-19, and AM-8 pwr amp)		8.50
AN/TRC-8 (T30/R-48)		8.50
AN/VRC-19 (R394/T278)		8.50
R-391/URR	repro	17.00
BC-AS-229		7.50
BC-348-J-N-Q	repro	10.00
BC-348-K-L-R	repro	10.00
BC-624/625	repro	12.00
BC-639	repro	8.50
BC-669	repro	8.50
BC-779/1004		10.00
CV-157	repro	15.00
CV-591 (MSR-4)	repro	8.50
R-140 (HRO-5)	repro	10.00
R-220/URR-29		$12.00
R-274	repro	12.00
R-388 (51J3)	repro	10.00
R-390	repro	15.00
R-390A	repro	15.00
R-392	repro	15.00
SP-600-JX	repro	10.00
T-195		8.50
TCS-12	repro	12.00

U.S. ARMOR COMMUNICATIONS ELECTRONICS DATA (book), July 1973; descriptions of mil-radio equipment, $3.00

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A USERS GUIDE TO ARC CORP RECEIVERS --by M. Tauson; ARc-5, ARC-type 12 etc. $4.

NEW WEATHER SATELLITE HANDBOOK, R.E. Taggart; $8.95

LOW & MEDIUM FREQUENCY SCRAPBOOK, 4th Ed. $9.95

LIVING ON A SHOESTRING by G. Ewing; "scrounging" $8.

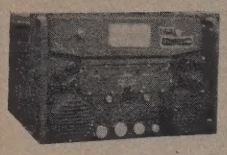
ARRL BOOKS

1984 RADIO AMATEURS HANDBOOK $12.
SOLID STATE BASICS f/amateurs $5.
SOLID STATE DESIGN f/amateurs $7.
ANTENNA BOOK, theory and instruction on antennas, $8.
ANTENNA ANTHOLOGY, articles from QST on antennas, $4.
LICENSE MANUAL, a study guide for the novice, $4.00
UNDERSTANDING AMATEUR RADIO, an introduction, $5.00
THE SATELLITE EXPERIMENTER'S HANDBOOK, $10.
OPERATING GUIDE. $5.00 HINTS & KINKS, $4.00
FM & REPEATERS f/QST, $5 ARRL LOG BOOK, $1.75
RADIO FREQUENCY INTERFERENCE, $3. I/C/F CALCULATOR $3
TUNE IN THE WORLD OF HAM RADIO, wkbook & casstte $8.50
BASIC BOOK OF HAM RADIO, $4.95 WEEKEND PROJECTS, $3.00
200 METERS AND DOWN, $4.00

VINTAGE RADIO

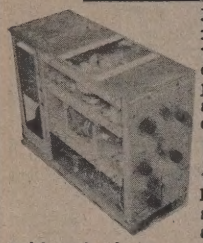
VINTAGE RADIO 1887-1929, pictoral story of radio's early years; 1000+ pictures and commentary, 263 pp. Softbound, $9.95;
A FLICK OF THE SWITCH 1930-1950, sequel w/TV, $9.95
1921-1932 RADIO COLLECTOR'S GUIDE, listing of over 9000 radios, 1100 mfgs; 263 pp. Softbound, $9.95
MOST-OFTEN-NEEDED 1926-1938 RADIO DIAGRAMS, reprint of Beitman's book of 600 old radio schematics, $9.95

225-399.9 MHZ RECEIVER



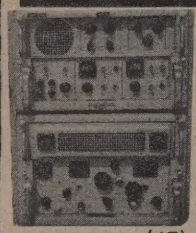
R-278 RECEIVER, 225 to 399.9 Mhz AM; crystal frequency control for 1750 channels in 100 Khz steps; ten preset channels. Audio freq response: 200 Hz-20 Khz (wide), 200-5 Khz (narrow). Has AVC, squelch, and 44 tubes; unitized chassis, rackmount. 12¾x19½x20, 115 lbs sh wt. Used, less guard channel, reparable, $125. MANUAL, partial repro, $15. Schematic, $2.50

POWER AMPLIFIER



POWER AMPLIFIER ASSEMBLY removed from 225-400 Mhz transmitter; makes an excellent foundation for your power amp. Has oscillator section with 12AT7, 1st doubler (12AT7), buffer (12AT7), 2nd doubler (4X150), and a push-pull tripler with two 4X150's. Manual controls for crystal select, RF driver w/lock, and PA tuning w/lock. PA-grid and plate currents could be monitored by adding a 200 microammeter and switch. Silver-plated chassis includes heavy duty blower and tubes 3/12AT7, and 3/4X150A (6 V fil.) 14x10x5, 33 lbs. #PA/TRD w/schem, $77.

2-32 MHZ SSB RECEIVER



AN/FRR-59A TRIPLE CONVERSION SSB RECEIVER WITH FULL CARRIER SUPPRESSION FROM 2 TO 32 MHZ IN FOUR BANDS: (2-4) (4-8), (8-16), AND (16-32) MHZ. RECEIVES LSB, USB, AM, CW, AND MCW SIGNALS; LSB AND USB RECEPTION POSSIBLE SIMULTANEOUSLY OR SEPARATELY. INCREMENTAL OR CONTINUOUS DIGITAL TUNING IN 0.5 KHZ STEPS. INTERMEDIATE FREQUENCIES (IF): 1625-1725 KHZ, 220 KHZ, AND 80 KHZ. BUILT-IN 1 MHZ CRYSTAL CALIBRATOR. AF LINE OUTPUT: 60 MW INTO 600 OHMS (MIN.); PHONE OUTPUT: 15 MW INTO 600 OHMS (MAX.). RECOMMENDED ANTENNA TERMINAL IMPEDANCE: 50 OHMS. USES 7- AND 9-PIN 6.3 V. glass tubes. Requires 105-125 VAC 50/60 Hz; 25¾x22x24, 300 lbs sh. Connectors to make interconnect cables and partial repro of manual included. Used-not checked, $250.00

ALTIMETER TRANSCEIVER

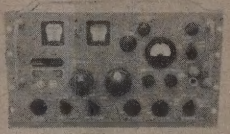
RT-7/APN-1 ALTIMETER TRANSCEIVER, 418 TO 462 MHZ FM; ABSOLUTE READINGS TO 4000 FEET. CAN BE CONVERTED FOR OTHER USES. UNIT CONTAINS WOBBULATOR, DYNAMOTOR, AND TUBES 2/955, 2/9004, 3/12SJ7, 4/12SH7, 2/12H6, AND OD3. POWER REQUIRED: 27 VDC 3 AMPS. SIZE: 8¾x18½x8; SH WT: 25 LBS UNUSED, $18.95; SHOCKMOUNT ASSEMBLY FOR APN-1, $2.00

SA-1/ARN-1 ALTITUDE LIMITER SWITCH USED WITH RT-7 AND ID-14A IN CONJUNCTION WITH AN AUTOPILOT SYSTEM. ALTITUDE LIMIT SET FROM 50 FT. TO 300 FT. IN 25' STEPS; X 10 MULTIPLIER FOR HIGHER ALTITUDES. DESIGNED TO SIGNAL WHEN MIN. AND MAX. LIMITS ARE EXCEEDED. 3" DIA. UNUSED, $2.95

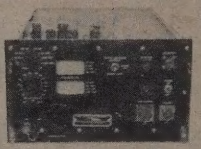
OMNI-SPECTRA 11147B OSCILLATOR, impressive looking gold-plated miniature oscillator; no technical info available. We do know that Omni-Spectra specializes in small microwave coaxial components for frequencies above 1 Ghz. Solid-state; SMA fitting. 1x4½x3 $40.

30-300 MHZ RECEIVER

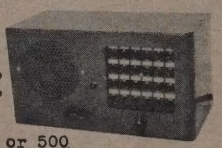
R-1420/URR (CEI 905A) UHF RECEIVER, covers 30 to 300 Mhz AM, FM, CW in bands 30-90 and 60-300 Mhz; bandwidth selective 20 or 300 Khz. IF 21.4 Mhz; IF reject @ 30 Mhz is 54 db, above 50 Mhz is 80 db. Sensitivity: 1 uv/4 uv (AM) and 2 uv/6 uv (FM) for bandwidths 20 Khz/300 Khz @ modulated 1 Khz. Video output 5 vrms across 10K ohm load. Meters for Tuning and Signal, separate band tuning knobs and dials, BFO, RF/IF Gain, Audio Gain, Video Gain, Cor Sens, 600 ohm auio out. Partially transistorized; has 2/6CW4, 8058, 7587 nuvistor tubes. Requires 115/230 VAC 50-400 Hz; partial repro manual from microfiche included. 3½x19x15, 25 lbs sh. Used-operational/not to specs $495



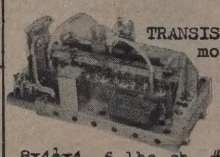
R-1538/GLQ-3 RECEIVER, same as R-220/URR except has 115 VAC 400 Hz modular power supply; covers 20-237 Mhz AM, FM, CW in seven continuously tunable bands. 455 Khz IF; IF selectivity 10-50-200 Khz. Calibration points every 5 Mhz. Antenna input impedance 95 ohms; no covers. 10½x19x14½, 100 lbs sh. Used, $325.00



O-1351/GL RF OSCILLATOR, covers 1.5-350 Mhz in 8 bands; controls Int-CW-Ext Modulation, Antenna-Standby-Dummy Load, RF Gain, Adj for Max Output. Has Collins-type VFO, 8 filters, 8 changeover relays, 14 tubes plus transistors. Power requirements not known--no further info. May have been exciter for jamming transmitter. 7¾x13½x18, 44 lbs sh. Used, $150.00



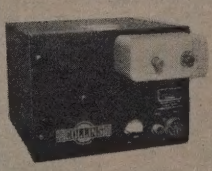
LS-128A/F INTERCOM STATION, consists of a three tube audio amp in metal cabinet w/speaker, Idle-Listen-Talk switch, and switching for upto 24 remote stations. Input-output impedance 50 or 500 ohms; speaker 45 ohms. Audio output: 2½ watt. Includes terminal block on 5' cable and 6V6, 6X5, and 6SJ7 tubes. 13½x7½x7, 23 lbs sh. Used, $18.95; unused $27.95. Manual $5/set.



TRANSISTORIZED GUARD RECEIVER f/ modified RT-178/ARC-27; one channel in 238-248 Mhz range. IF's 25.1/3.45 Mhz; has detector, noise limiter, AVC, 4/2N1745 transistors, and 25.1 Mhz filter. 8x4½x4, 6 lbs sh. #5821-953-9695 used $12.95

AM-777 AMPLIFIER DETECTOR, p/o RT-128A/ARC-21 2-24 Mhz transceiver; IF's 1800/300 Khz. Slug tuned; w/tubes 4/5636, 3/5896 3/5899, 3/6021, 5840, 5902, and 5719. Schematic included. 13½x2x3½, 5 lbs. Used, $10.00

COLLINS 180L-3

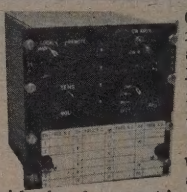


COLLINS 180L-3 AUTOMATIC ANTENNA COUPLER, usable with transceivers in the 2-25 Mhz range, 50-180 watts. Automatically resonates an antenna to a transceiver's frequency and couples the RF signal between the transceiver and antenna. Also transfers antenna to receiver or receiver section after the transmitter is unkeyed. Coupler has 7-970 pf 3 KV vacuum variable capacitor and variable ribbon 32 uHY inductor; also smaller roller inductor and SWR meter circuit. Requires 28 V-DC 3 amps, 250 or 400 VDC 35 ma, and 115 VAC 400 Hz 20 VA. 10½x7¾x11½, 24 lbs sh wt. Used, $109.50; Manual, partial repro, $10.

RT-311 TRANSCEIVER

RT-311/ARC-38 AM TRANSCEIVER, 2.0 to 25 Mhz from 20 preset channels. Frequency interval: 500 Hz (2.0-7.25 Mhz) and 1000 Hz (7.25-25.0 Mhz). Has autotune from channel to channel. Minimum peak output 100 watts (2-14.25 Mhz), 90 watts (14.25-25 Mhz). Antenna tune power: 50 watts. 40 db carrier suppression. Receives AM or CW; sensitivity 5 uv for 6 db signal (phone). Selectivity: 7.5 Khz min @ 6 db, 20 Khz max @ 60 db or 1.8 Khz min @ 6 db, 5 Khz max @ 60 db when in CW sharp position. Unit has VFO and 25 tubes including three 6159's in power amp. Requires 28 VDC, 600 VDC, 250 VDC, -50 VDC, -65 VDC and 6.3 VAC. Also 115 VAC 400 Hz for selsyn on PA inductor. 15½x8x23½, 65 lbs sh. Used, not checked, $85.00 MANUAL, partial repro, $15. w/set purchase. COLLINS 618S-1 TRANSCEIVER, similar to RT-311/ARC-38 but without VFO. Crystal-controlled AM receiver, $54.50. Schematic, $3.00 618S-1/MC TRANSCEIVER, modified for SSB by RCA, xtal-controlled, $99.95. Schematic, $8.

RT-594/ARC-38A SINGLE SIDEBAND TRANSCEIVER, similar to RT-311/ARC-38 except has SSB capabilities. Used, not checked. $145.00 RT-311/ARC-38 or RT-594/ARC-38A replacement modules removed from sets. Write your needs.

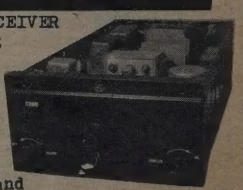


C-1398/ARC-38 CONTROL BOX for control and frequency selection of ARC-38. Twenty preset channels or manual in 500 Hz steps. With code book. Most functions operable with ARC-38A SSB set except for function switch which would have to be disabled and provision for side band reception added. 7¾x5¾x6, 14 lbs. Used, $14.95 ; Schematic, $2 if bought w/Box.

* *

C-3428/ARC-38A CONTROL BOX, same as C-1398 except has SSB function switch for use with RT-594/ARC-38; used, $19.95. Schematic, $2.

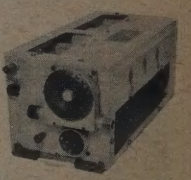
AIRCRAFT TRANSCEIVER



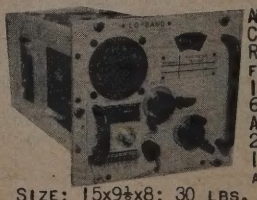
RT-524M AIRBORNE TRANSCEIVER mfg. by Aircraft Radio; covers 136.00 to 149.95 Mhz AM in 50 Khz crystal-controlled steps. 15 watts output. Has volume and squelch controls. Requires 24 VDC 6 amps. With tubes 8156, 2/8102, 6/6CW4, and 2/7587. Schematic not available. Size: 6½x3½ x14; 10 lbs. sh. Used, no cover, ~~$34.95~~ $40.

R-1134/WRR-3 VLF RECEIVER, 14-600 Khz AM-CW-FSK in five mechanical digitally tuned bands. 8¾x17¾x16½ 80 lbs. Reparable $215. Chkd $295.

R-482/URR-35 UHF RECEIVER, 225-400 Mhz AM-CW in one band. 8¾x17¾x19, 65 lbs. Reparabl $95.



BC-AS-229 RECEIVER, 201 to 398 Khz and 2500 to 7850 Khz using plug-in coil sets. Uses tubes 37, 38, & 4/39's. Requires 230 VDC 80 ma and 12 V. 8x7x16, 15 lbs sh wt. Used, less tubes & coils $9. With tubes/no coils, $16.95 PLUG $2. TUNING KNOB, $2. MANUAL, partial repro, $8.50



AM-1955/GRC AMPLIFIER CONVERTER USED WITH R-1148/GRC-55 RECEIVER FOR 600-1000 MHZ BAND. 17 MHZ IF. HAS 115 V 60 HZ MOTOR AS PART OF AFC SYSTEM. WITH TUBES 2C40A, 2/5842, 5654, 1N21B, 1N21WE. 150 VDC AND 6.3 VAC REQUIRED. SIZE: 15x9½x8; 30 LBS. SH. USED, ~~$50.00~~ $38.

CANADIAN REMOTE STATION

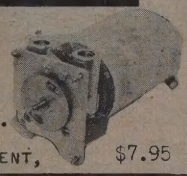
CANADIAN CHANNEL CONTROL BOX, originally used as a four channel remote unit for a transmitter; looks like it might be adaptable as part of an intercom system. Has push-to-talk handset, 3½" 600 ohm PM speaker, audio transformers 600 ohm to 8 ohm and 50 ohm to 600 ohm CT, volume control, channel selector (2-deck, 6-pole 4-position each), phone and key jacks, two pilot lights, and other parts. Heavy aluminum cast case. 15⅝x13⅝x6¾, 34 lbs. #CAN-40-RC unused $22.95

TCS SPEAKER-CONTROL UNIT, has 5" dia permanent magnet 6 ohm speaker, 500 to 6 ohm audio transformer, volume control, headphone and mic jacks, and three toggle switches. 5¼x7⅛x3½, 8 lbs. #TCS-23270, $12.95

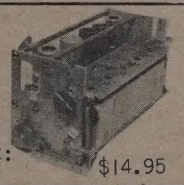
CLASS C POWER AMP

CLASS C POWER AMPLIFIER removed from T-195/GRC 100 watt transmitter; uses 4X150D tube to cover 1.5 to 20 Mhz in ten bands using variable and fixed capacitors, switches, and 400 Hz servo motor. Chassis also has discriminator and servo amplifier. Requires +1000 VDC modulated, +250 VDC, -45 VDC, and 115 VAC 400 Hz for motor. Includes tubes 4X150D, 5751, 6AQ5, 5763 and schematic info. 9⅛x8½x6, 15 lbs sh. #PA/T195 used $45.

VFO - EXCITER - MOD



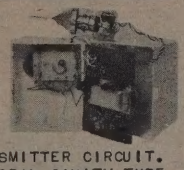
VFO-MASTER OSCILLATOR FROM THE T-195 TRANSMITTER; GENERATES FREQUENCY OF 1.5 TO 3 MHZ. HAS 5749 OSCILLATOR TUBE AND 5749 BUFFER-AMP TUBE. WITH ¼x3/16" DIA. SHAFT. 2⅜x3¼x7, WT: 5 LBS. VFO/T-195, REMOVED F/EQUIPMENT, $7.95



EXCITER STAGE FROM T-195, USED TO AMPLIFY VFO OUTPUT AND SUPPLY DESIRED TRANSMITTING FREQUENCY TO POWER AMP. SLUG TUNED IN RANGES (1.5-3), (3-6), (6-12), AND (12-20) MHZ. WITH TUBES 6AU6, 2/6AK6, AND 5763. SIZE: 4½x3½x8, 12 LBS. EXC/T-195, $14.95

MODULATOR F/T-195, DESIGNED TO PROVIDE PROPER AUDIO POWER TO MODULATE POWER AMP AND SUPPLY SIDETONE. 300 HZ AND 3500 HZ BANDPASS. W/TUBES 5726, 2/12AT7, 5814. LESS 4X150 TUBES AND SOCKETS. 8½x6x4½, 6 LBS. $10.95

TRANSISTOR RADIOSONDE

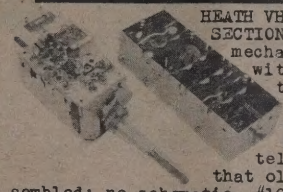


TRANSISTORIZED RADIOSONDE WITH CLOCKWORK TIMING MECHANISM (NO KEY); USED IN METEOROLOGICAL OBSERVATION OR SIMILAR APPLICATIONS REQUIRING AN EXTREMELY LIGHT-WEIGHT TRANSMITTER. UTILIZES A 2-TRANSISTOR MODULATOR AND A 2-TRANSISTOR TRANSMITTER CIRCUIT. TRANSMITTER HAS A 7533 INTEGRAL CAVITY TUBE WHICH FUNCTIONS AS THE TUNED CIRCUIT FOR THE OUTPUT: 1660-1700 MHZ, 575 MW (NO FURTHER DATA). WITH HUMIDITY ELEMENT. TRANSMITTER SIZE: 2½" DIA. x 6". OVERALL SIZE: 7½x4x5½. SHPG. WT: 4 LBS. FRIEZ #3002, UNUSED, $9.95

AN/AMT-4A RADIOSONDE, consist of T-304A xmitter and MD-147C modulator; unit is similar to Friez 3002 except uses tubes 5794 and 5876 and operates at 1680 Mhz. Requires 1.5, 6, & 15 VDC. 2 lbs sh wt. #T-304A transmitter only, $4.95; 2/$8. MD-147C modulator only less humidity and pressure elements, $3.00; 2/$5.

T-69F/AMT-2 RADIOSONDE XMITTER only, 390-410 Mhz; 5703, 5910 tubes--$2. BB208 battery, $2.

TELEVISION 'TUNE-UP'



HEATH VHF TUNER & IF SECTION, transistorized mechanical detent tuner with fine tuning; transistor IF section. Probably used in most Heath mid-1970's color televisions. Fix-up that old TV. Factory assembled; no schematic. #100-1071 unused $12.

MX-329 GYRO ASSY

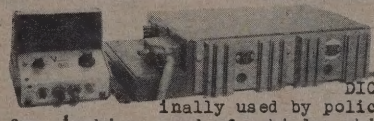
MX-329/ASG-10 BOMB DIRECTOR GYRO set in MT-338 shock-mount. Gyro is operated from external air pressure and has 27 VDC gear motor to look gyro. Aluminum housing 4-3/8" dia; gyro about 2⅛" dia. Has glass window on one end with -20 to 0 to 460 scale for monitoring relative attitude. 6½x7x9, 10 lbs sh. $29.50

ZEISS 300 MM LENS

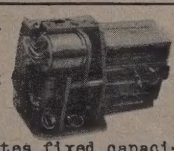
CARL ZEISS S-TESSAR multi-element color-corrected COPY LENS; 300 mm focal length and fixed aperture of F5.6. Front lens unscrews and is usable as separate 127 mm lens; 62 mm dia. Outer metal ring 3-5/8" dia; rear barrel 3" dia x 1-5/8"L. O/a 3-1/8" long. 3 lbs sh. #300MM-ZSL, NEW, $16.95

180 MM LENSE with aperture adjustable in stops f4.5, f5.6, f6.3, f8, f16; might make nice enlarger lense for 4x5 format. 2-5/8x2⅜" dia; 2 lbs. #AST-L180 used $10.95

VASCAR II SPEED TRAP



VASCAR II DISTANCE/TIME COMPUTER-INDICATOR, originally used by police agencies for clocking speed of vehicles while the police car was either in motion or stopped. Unknown vehicle is determined by referencing it to the known speed of the police car over a predetermined distance. Clocking possible of vehicle in front of, behind, in opposite direction of, or across the path of the police car. Displays average speed in tenths of miles per hour upto 199.9 mph. Computer module consists of four circuit boards with 5 VDC logic and transistors. Operates from 12 VDC 3.4 amps. Includes computer module, control module w/cable and plug, power plug, transducer plug, and manuals. Speedometer transducer is not available. 2⅜x13⅜x7½, 18 lbs sh. Used, operational-not calibrated $60.



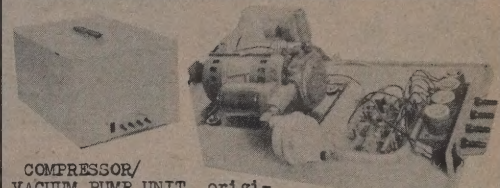
ANTENNA TUNING ASSEMBLY with two 20-400 pf 0.02" air gap variable capacitors. Each rotates 180 in 10 sec using 24 V 60 Hz and 4 mf 330 VAC capacitor (not included); can be adapted to differential use. 360 rotation actuates fixed capacitance in parallel over next 270 in 13 steps. 400 Hz servo motor runs on 24 V 60 Hz; intermittent 115 V 60 Hz required to engage fixed capacitance steps. W/schematic; 4½x6½x3¼, 5 lbs sh. #2-C1003/T-195, used, $8.95

GRAB BOX ASSORTMENT OF USED AND UNUSED MANUFACTURERS AND GOVERNMENT SURPLUS ELECTRONIC PARTS SUCH AS ASSEMBLIES, MOTORS, COILS, TRANSFORMERS, CHOKES, CIRCUIT BOARDS, CAPACITORS, RESISTORS, AND OTHER USABLE ITEMS. PACKED IN 50 LBS. CARTONS. $7.50 EA. OR TWO CARTONS FOR $13.00.

SHIPPED VIA UPS WITH FREIGHT CHARGES VARYING FROM $5 TO $16 PER CARTON. ALLOW FOR FREIGHT.

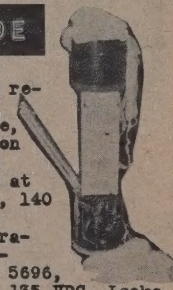
GRAB BOX IS GOOD FILLER TO TAKE ADVANTAGE OF MOTOR FREIGHT 150 LBS. MININUM WEIGHT RATES.

COMPRESSOR-VACUUM PUMP



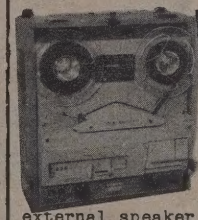
COMPRESSOR/VACUUM PUMP UNIT, originally used with medical equipment. Could be used as-is or dismantled for separate components. Consists of Cast #1531-V-175-351 motor rated 115 VAC 60 Hz 1.7 amps, 1/10 HP 3450 RPM. Compressor duty: 1.5 CFM @ zero PSIG to 0.95 CFM 20 PSIG max. Vacuum duty: 1.5 CFM @ 6" HG, 0.8 CFM @ 10" HG, or 0.2 CFM @ 20" HG. Compressor outlet connected to four valve assembly; each valve has ¼" orifice and rated 5 PSIG. Printed circuit board cycles valves 15 seconds on/15 sec off, two valves or all four valves functioning according to position of valve selector switch. Compressor fittings standard 1/8" NPT. Includes 4-blade cooling fan and sound insulated enclosure for low noise operation. 10x13¼x18¼, 34 lbs sh. #AS-LAP-VP, used, $34.95

AMT-6 RADIOSONDE



AN/AMT-6C RADIOSONDE WEATHER ANALYSIS SET, designed to be released from high-flying aircraft to transmit temperature, humidity, and pressure data on its descent. Transmits pulse signals in 399-403 Mhz range at repetition rate of 20-550 Hz, 140 watts peak. Includes 18" dia drogue and 48" dia vented parachutes, humidity-temperature-pressure elements, and tubes 5696, 5875, 6026. Requires 1.5, 6, 135 VDC. Looks like an interesting experimenter's item. 5¼" dia X 21½"H, 9 lbs sh. Unused, $14.95

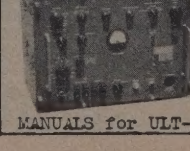
WEBCOR RECORDER



WEBCOR TAPE RECORDER, plays and records @ 3¾ or 7½ ips; accepts upto 7" dia reels. Has standard features fast forward/rewind plus edit lever, footage counter, and 20-0-20 record level indicator. Also mic, bridge, and external speaker jacks, and built-in speaker. Monaural use only; 100-10000 Hz response @ 7½ ips. Mic input impedance: 500K ohms. With tubes 12AU7, 12AX7, 6X4, 6BQ5, 6HU6, & 7025. Requires 115 VAC 60 Hz. 13⅜x12¼x7; 32 lbs sh. Units checked for basic playback/record; may need further adjustments. Mic and reels not

ANTI-JAMMING TRAINERS

AN/ULT-T2 (15X12) X-BAND INTERFERENCE TRAINER, a low power transmitter in the 8500-9600 Mhz range designed to train radar operators in anti-jamming techniques. Unit can be manually tuned and modulated by a sine or square wave, pulse, noise, or modulation from an external source. Has controls for CW, 5-16 Mhz/sec sweep, 250-500 -1100 Mhz sweep sector, percent modulation, and pulse width 1-5 usec. Frequency modulation 15 Hz-15 Khz variable and fixed 50 or 100 Khz. Audio output impedance 600 ohms. Designed to be used within 50 feet of radar. Uses 2K45 klystron. Requires 115 VAC 50-400 Hz; with antenna horn and transit case. 13¼x19⅝x19¼, 110 lbs sh wt. Used, ~~$99.50~~ $80.



AN/ULT-T4 (15X18) INTERFERENCE TRAINER, similar to ULT-T2 except covers L-Band (1220-1350 Mhz) and uses 2C36 klystron. With antenna horn and transit case. 17⅝x23¼x18¼, 100 lbs sh. Used, ~~$105.00~~ $85.

MANUALS for ULT-T2 or ULT-T4, $10 each w/set.

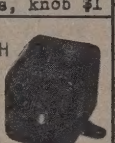
Control Boxes Filters Indicators Tuning Units Amplifiers

ALARM BELL
OPERATES FROM 24 VOLT D.C. SIZE: 4½x4½x2⅝ WT: 1LB #5615-3 NEW $1.95

BC-1361 SWITCH BOX w/bullseye light, 2 water-proof conn 4PST switch, SPST mom. sw., and two binding posts. 6½x5x2¼, 2 lb. $3.

RF CHASSIS f/ Bendix RA-18C 108-136 Mhz receiver; 7-gang capacitor tunes ant-coil RF grid, RF plate, mixer grid, 1st osc-quadrupler, 1st osc-amp, & cathode follower input. Tubes 2/5654, 5670, 5725; requires 6.3-12.6-108-250 VDC. 3½x3½x10½, 5 lbs. W/ schem. #RF100-RA18 NEW $10.

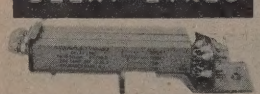
C-87/ART-13 PILOT CONTROL f/ART-13 transceiver; has two 1⅛" dia ceramic rotary switch (one 1-deck 12-position; other 2-deck 5 pole 3-pos), mic jack, pilot light, and 2 knobs. 3½x6x3, 2 lb. $4.00 C-87 w/o switches, knob $1



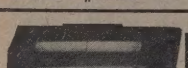
SA-3 IMPACT SWITCH SPST, 10 A. NORM. OPEN, USED IN AIRCRAFT TO TURN ON DETONATOR CIRCUIT WHEN CRASH OCCURS 10 "G" OF FORCE. HORIZONTAL PLANE. $1.95 EA.

LS-230 INTERCOMMUNICATION STATION CONTROL BX CONTAINS 3 ROTARY 3 POSITION LEVER CONT. SW 1 LEVER SW. DP DT CENTER OFF, 1 LEVER SW. SPST 1 SIDE, OTHERSIDE SPST MOM. & CENTE OFF. 3 LITE IND. PHONE & MIKE JACK & 1 MIN. TRANSFOR 50 TO 500 OHM. SIZE: 7x5x2½; WT: 3 LBS. PRICE: $5.95

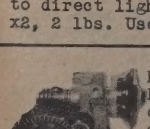
DELAY LINES



DELAY LINE ASSEMBLY with three ESC 71-26-1 continuously variable DL's, each with 0.5 usec delay, 750 impedance, and screwdriver adjust control. Also five BNC connections. 10½x2½x2½, 3 lbs. #5915-650-3805 $12.95

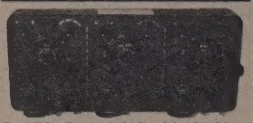


PRISM from M4A1 tank periscope. 5½x1½ view area. Peak around corners or use to direct light. O/A 6½x2½ x2, 2 lbs. Used $2.75 2/$5.



RIGHT ANGLE DRIVE vernier control, 1¼" dia. dial, w/ lock & coupling f/¼" shf 3-hole mtg. #TU-10RA, $2.

ARC-5 BOXES



BC-450 RECEIVER CONTROL f/ tuning upto 3 receivers. W/dials 190-550 Khz, 3-6 Mhz, & 6-9.1 Mhz; CW-off -MCW switches, volume controls, and phone jacks. 9½x5½x3, 3 lbs. Unused $8.

BC-496 DUAL RECEIVER CONTROL for SCR-274/ARC-5 receivers; tuning dials for 3-6 and 6-9.1 MC, volume, etc. 2 lbs sh. Unused $7.95

BC-451 TRANSMITTER CONTROL, for one to four Command xmitters; built-in key, mode, mic jack. Unused $5.

RF TUNER from R-19/ ARC 118-148 Mhz receiver. Consists of 4-gang capacitor with geared drive for MC-215 spline, BNC RF connection, and tubes 3/9003 and 1/9002. Silver-plated chassis. 4½x 3x3, 3 lbs. Unused. ARC #15176 $12.95

MAR CONTROL BOX, contains 3-SPST switches, two phone & mic jacks (all waterproof) and one dual pot w/dial knob. 5⅛x5⅛x3, 3 lbs sh. #CMX-23429, unused, $2.00

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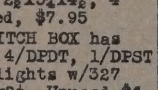
17-DOLLAR DAZE- CONTROL BOX w/DPDT, DPST, & SPST switches and 3 pilot lights w/bulbs. $1.

C-868/ARC-27 CHANNEL SELECTOR for ARC-27 transceiver; selects 18 channels plus guard channel. Also volume, function sw, 2 pilot lights 6x3½x3¼, 3 lbs. Used, $9.00 19-pin conn f/C-868, $3.00

MAGNET 7" long, 3" high, 2⅝" wd. 6-3/4 lbs. #SK-MAG Seems to have good power. $10. $7.50

SB-329/AR SIGNAL DISTRIBUTION BOX, p/o ARC-44-45 sets; has 4-position selector, vol-control, 2 pilot lights w/327 lamps, and 5 mini-toggle switches (4/SP-DT, 1/DPDT). 2½x5½x4½, 4 lbs sh. Unused, $7.95

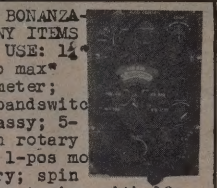
SA-474/AR SWITCH BOX has mini-toggles 4/DPDT, 1/DPST and 2 pilot lights w/327 lamps. 2½x5½x2½. Unused $6.

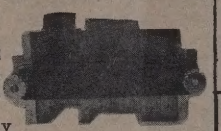


SB-328/AR CHANNEL SELECTOR for ARC-45; 12-pos channel select, tone, volume, 2-pilot light w/327 lamps. 2½x5½x4½, 2 lbs. Unused $10. Used $6.

SB-327 CHANNEL SELECTOR for ARC-44 R-T, used $15.

-A REAL BONANZA- HAS MANY ITEMS YOU CAN USE: 1¼" "tune to max" 300 ua meter; 4-band bandswitch & dial assy; 5-position rotary sw with 1-pos mo momentary; spin crank for tuning with 10-turn pot; volume control w/3-gangs; five 327 lamps; Loop switch (L or R momentary); SPST toggle sw; other parts. Originally tuned R101/ARN-6 (p 4). May have broken wafer switch; 6 lbs. #C423/ARN-6 used $4; 2/$7.





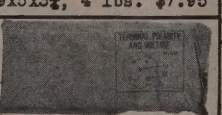
ADJUSTO PROFILE TEMPLATE From the good old days. A quality profile gauge with cast frame, 6" brass strips that allow very fine resolution of profile from .007 thick by .07 inch wide. Used in woodworking, metal or wherever exact contour shapes are needed. Shpg 3lb Order--Adjusto Template $10

****
*MAKE *
MACY'S
*PHONE *
*PATCH *
****

RM-52 Remote Control used for radio and intercom set. Has transformer, mic & phone jacks. Source for Phone Patch project. 7¼x3½x5, 5 lbs. Used, $4.

CRV-23253 TUNING CONTROL, p/o early WW-2 ARB set; four ranges covering 190 Khz-9.1 Mhz. Fits MC-124 spline 2 lbs sh. Unused $6.

EARLY WW-2 PILOTS CONTROL BOX #RL-24C, dual intercom control, volume, 2/FL68 plugs. 9x5x3½, 4 lbs. $7.95



BA-398/ PRC-25 ARCTIC BATTERY PACK, consists of 72/1.5 VDC mercury cells wired to produce 2.5 V 400 ma and 12 to 15 VDC 1.4 A in cloth bag. 1977 date codes; unused but LV output weak. 6 lbs sh. $4.95 ea 2/$8.

* * * * * * * * * * * * * * *

NICAD BATTERY, rechargeable 4.8 VDC 500 ma; 1½x1-3/8". #4/500DKZ, NEW, $4.

SAFARI HAT

Nice for jungle or lifeguard use or upside down as flower pot. Dusty w/worn spots in khaki cloth; 11½x14"L 2 lbs. #SAF-HAT, $2.; 2/$3.

RUBBER SHOCK MOUNTING				
	4	lbs	#4	$.45
	6	"	#6	.50
	10	"	#10	.60
	12	"	#12	.65
	16	"	#16	.75
	24	"	#24	1.00
	35	"	#35	1.25

OTHER WEIGHTS AVAILABLE.

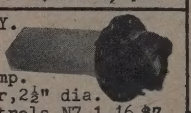
M-399 ADAPTER

M-399 ALIGNMENT ADAPTER for BC-659 transceiver; allows the changing of crystals as well as the alignment of the set without the use of an external meter. Mounts inside the BC-659. 2 lbs. $5.00
M-394 ADAPTER f/BC-620, $5.

VO-6 OSCILLATOR CRYSTAL CONTROL 4.3 MHZ; VARIABLE 0-100 u-V OUTPUT. USED WITH VARIOUS SETS HAVING 4.3 MHZ IF. W/1T4 TUBE. REQUIRES 1.5 AND 67.5 VDC. 5x5x3¾, 5 LBS. USED $8

I-210 ALIGNMENT INDICATOR USED WITH VO-6. HAS 6E5 EYE TUBE FOR INDICATION ALSO CHECKS RESISTANCE TO 50K OHMS AND 0-4.5-6-30 V. REQUIRES 4.5 OR 7.5 VDC AND 60, 90, OR 150 VDC. 5⅛x4½x2; 3 LBS. SH. USED $9

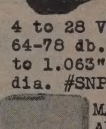
ME-40 MANUAL f/above, $5.



SWITCH ASSY. FUEL LEVEL CONTROL. 24 vdc 3 amp. 7" cylinder, 2½" dia. United Controls N7-1-16 $7.

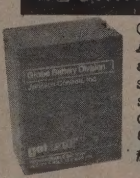
MALLORY SONALERT

4 to 28 VDC, 2900 Hz cont., 64-78 db. Snap-lock fit into 1.063" dia hole; ½x1-5/8 dia. #SNP-428, NEW, $4.95



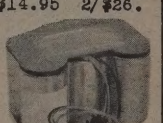
MALLORY INTRUSION ALARM, hang on door knob and set sensitivity. Sonalert sounds when outside door touched. Will not work on steel doors; 9 VDC requir #DRS-DC, NEW, $7.95

RECHARGEABLE



GLOBE 6 VDC 12 AMP HR rechargable gel-cell; slip terminals, sealed plastic case. 5⅛x4½x2⅝ 6 lbs sh. NEW #GC6120 $16.95 2 for $30.

ELPOWER 12 VDC 4.0 AMP HR gel cell; sealed plastic case. 5x3⅝x2-5/8, 5 lbs sh. #EP1240 NEW $14.95 2/$26.



GATES LEAD-ACID BATTERY PACK, six 2 VDC 5 amp cells wired to produce 12 VDC 5 A; rechargeable. Each cell 3x1½ dia, 7 lbs. #0800-0041, $16. 2/$28.00

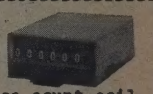
GATES 12 V 2.5 AH LEAD ACID 8x2½x1½. #0810-0016 used $8

NICAD SUB-"C" CELLS, 2.5 V 800 ma per pair; each 1-1/8 x1" dia. #NC-SC-PR $2.50/pr

BB-648 NICAD, 1.2 V 18 AH @ 1 hr rate; 5⅛x3-1/8x1-5/8, 3 lbs. Used-take charge, $3

NOISE-VOICE ACTIVATED TRIGGERING DEVICE

WHEN CONNECTED TO 6-9 VOLTS AND A RELAY OF THE SAME VOLTAGE THE RELAY CAN BE ACTIVATED BY NOISE OR VOICE. UNIT CONSISTS OF CRYSTAL MIC. TRANSISTOR, SCR 2 CAP. 3 RES. AND A TRIMMER POT. FOR ADJUSTING SENSITIVITY. W/SCHEMATIC/LESS BATT AND RELAY. SIZE: 1⅝x1; 2 OZ. LEE#5355, $1.00 EACH.

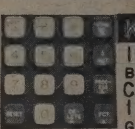


SODECO 6-DIGIT COUNTER electrically resettable; 60 impulse/sec count coil and reset coil both 24 V DC 83 ohms. 1-7/8x15/16 x4½; #RG266, NEW, $8.95

KEYBOARD

CALCULATOR KEYBOARD, 17 BUSINESS-SIZE KEYS. EACH SWITCH REMOVEABLE; CONTACTS ACCESSIBLE. SP4P SLIDE SWITCH USED, EXC. NCR#0092, $3.95

KEYBOARD



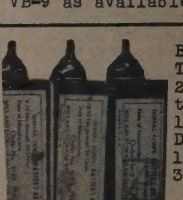
16 KEY KEYBOARD BY MICRO SWITCH CONTACTS RATED 12v 6MA TO SINGLE COMMON BUS. BUTTONS .5x.5x.2. 0 THRU 9 RESET, DELETE, CARD NO., $ AMT, PROCESS, FCT. SIZE 3x3x1 #16NW3-44 NEW $4.95

UNIPULSER

DURANT UNIPULSER II COUNTER, electromechanical type requires 24 VDC pulse; 36 Vrms half wave AC for reset. Has auxilliary low current contacts for remote indication or control. 1⅝x1⅝x4⅛ per counter. Unused w/PCB sockets. Bank of three, $6.00
" " four, $8.00

VIBRATORS

VIBRATORS removed f/equip. VB-1 & -7: 6 V. for PP-308, PE-97, -117, -237. $3.95
VB-12 (6 V.) or VB-13 (12v) for PE-120. $2.95
3H6690-16, f/PP-112, $2.95
Vibrators VS-3, G534, VB-8, VB-9 as available, $2 ea.



BB-51 BATTERY 6 V. 2.75 hours thru 30Ω lead cells. Dry charge. 1¼x3½x7/8, 3 oz. $1.50

BB-52, same as BB-51 except 36 V. 3 A. thru 1200 ohms. $1.00 ea.
BB-208 BATTERY PACK, contains BB-51, 3/BB-52, $3.

MINIMUM ORDER $5.00

PUSH-TO-TEST

PUSH TO TEST INDICATORS WITH MARKINGS ALSO HAVE CLEAR & AMBER LENSES

KORRY MFG., ALL UNUSED.

KORRY 260 PUSH-TO-TEST INDICATORS, DOUBLE LAMPHOLDER WITH MINIATURE BAYONET BASES. 1⅛"WX⅞"HX2⅛"D. NEW. CHOOSE FROM THESE LENS INSCRIPTIONS:

PHASE B POWER, 28 VDC. OR 24 VOLTS DC. $1 EA, 3/$2

KORRY 260 indicators with rocket launch-related inscriptions: UNLOCK, TESTING, COMPONENTS TEST POWER ON, HEATER 1-2-3, CENTER, LN OVERFLOW, LN LOWER LEVEL, LN UPPER LEVEL, 100% LIQ OXY, LIQ OXYGEN FINE, FUEL TANK PRESSURIZED, COOLANT FILL, 40 C THERMOSTAT, LOX THROT VALAVE HEATER. Price: 75¢ ea or 4 for $2.

ASSORTMENT OF ROCKET LAUNCH INDICATORS, NO CHOICE, 6/$2

KORRY 136 PUSH-TO-TEST INDICATORS, SINGLE LAMPHOLDER WITH MINIATURE BAYONET BASE ⅝"WX⅝"HX2⅛"D. INSCRIPTIONS: STANDBY; LOW; MALF. 65¢ 2/$1.

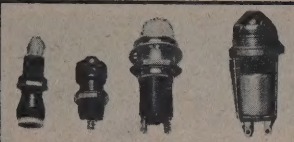
KORRY 103 INDICATOR, PUSH-ON RED PLASTIC CAP; PLASTIC BODY. 5/8" SINGLE HOLE MOUNT. #5167, 50¢ EA. 3/$1.

LAMP HOLDERS FOR 327 LAMPS ⅜" HOLE MTG. FLAT TOP LENSE 3/8 DEEP, WHITE LENS NUMBERED 1 TO 9, YELLOW ("MAX"), RED, AMBER, AND GREEN. SPECIFY. #6210-617-0934, 39¢ EA. #327 LAMP FOR ABOVE, 39¢

NEON CYLINDRICAL TYPE LITE

ELDEMA V W/RES. 3/8x1¼"
#2685 28v .04A 1/4x7/8

OBLONG SLIP IN TYPE NEON 1/2x1-3/8" 125v. #3100 USED ALL ABOVE 3 FOR $1.00



SUB-MINIATURE NEON PILOT LIGHT ASSEMBLY. FLUTED 5/16" DIA. CLEAR JEWEL. BASE IS FEMALE PART FOR A THREE PRONG PLUG WITH 1/16" DIA. HOLES IN ISOSCELES TRIANGLE PATTERN. MOUNTS IN 3/8" HOLE. 0" TO 3/8" SURFACE CLEARANCE. 1 3/8"LONG. INCLUDES BULB. USED. 110v. PIL007 $.25 5/$1.00

SINGLE TERMINAL AND CONTACT SUB-MINIATURE DIMMER PILOT LIGHT. MECHANICAL DIMMER VARIES SIZE TO COMPLETE DARKNESS. REQUIESS T-1¾ BULB. 5/16" DIA. SMOOTH RED JEWEL. MOUNTS IN 7/16" HOLE. 1 3/8" LONG. LESS BULB. NEW. 6210-643-4087 $.59

PILOT LIGHT WITH SINGLE CONTACT, MINIATURE BAYONET BASE. CLEAR STOVEPIPE, SMOOTH 5/8" DIA. JEWEL. MOUNTS IN 11/16" HOLE. SURFACE CLEARANCE IS 0" TO 3/8 2 1/8" LONG. LESS BULB. USED. PIL008 $.39

Pilot light with single contact candelabra bayonet base. 1" dia red-faceted jewel. Mounts in 1" hole with surface clearance of 0" to ⅜"; 2⅜" lg. Less bulb. PIL003 .59

PILOT LIGHT WITH SINGLE CONTACT, MINIATURE BAYONET BASE. ⅜" DIA. SMOOTH, GREEN JEWEL. MOUNTS IN 5/8" HOLE WITH A SURFACE CLEARANCE OF 0" TO ⅜". 2 1/16" LONG. LESS BULB, UNUSED. PIL004 .49

PILOT LIGHT JEWELS, ⅜" dia for ⅜" dia threaded assy. Asst colors. Series-F 6/$1

WHITE SWITCHBOARD JEWELS, 3/8" dia. #4C1971, 10/$1.

500 KHZ FILTER

COLLINS 500 KHZ FILTER ASSEMBLY consisting of nine adjustable coils and associated capacitors on ⅝x1½x6 enclosed chassis. Uses MB style miniature connector. Units are checked, but may need alignment. Collins part #542-4777-004, $5.00 Above, need repair, 2/$4.00

INDUCTORS

FERRITE POT CORE INDUCTORS, PC mount; 7/8x⅝" dia. NEW.
123-177 mH, #NV243, $1.50
600 mH, #404-3-2, $1.50
TORROIDAL COILS, 5/16x1 dia
150 mH, #403-1-1, 85¢ ea.

TELEPHONE PICK UP COIL used in modem data coupler; no specs. 5/8x1⅜ dia #403-4 $1

COMMAND XMITTER ANTENNA COIL for 5.3-9.1 Mhz range; 24 turns wire around 2" dia X 3" ceramic form; No contacts or mount brackets. #6035 $6.

#6035-MB, as above but with mount brackets $7.50

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NATIONAL NC-100 ASC CW OSC tuning coil, 456 Khz, $3.

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BC-348Q RECEIVER IF COILS
1st IF 9A1952 #147 $3.00
2nd IF 9A1953 #148 3.00

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BUD TRANSMITTING PLUG-IN COILS on 5-pin ceramic base #3C804 40 meters $1.50

COLLINS FILTER

COLLINS MECHANICAL FILTERS Used, reparable @ $3 each:
#526-9311-00 F300-Z5
#526-9312-00 F300-Z4

- - - - - - - - - - - - -

Used-reparable, $8.00:
#526-9310-00 F455-Q3

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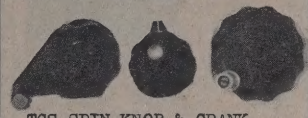
#526-8088-00, 21.608 Mhz (5895-980-9828) NEW $20
#526-9369-00, F64-Z7; (5915-724-6633) NEW $22

COLLINS CHANNEL MODEM CIRCUIT BOARDS each with two 6"x1" dia mechanical filters plus other parts such as transformers, chokes, pots, etc. 9½x6, 2 lb-Used:
#522-5247 w/two F84-Z8A (526-5249) filters, $6.95
#522-5243 w/two F100-Z8B (526-9463) filters, $7.50

FLUTED KNOBS



TGS SPIN KNOB & CRANK, 1-5/8" dia fluted knob w/ 7/8" crank extension; ¾" high handle. $1.50

LUXITROL KNOB, 2-3/8" dia. w/pointer; fits 3/8" dia. shaft, $1.50

#SP-SG15 2½ dia SPIN KNOB w/¼"h metal spin handle; brass insert f/¼" shaft $3.

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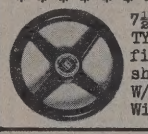


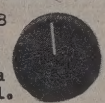
7½" dia. WHEEL-TYPE CONTROL, fits 3/4" dia. shaft. 2 lbs. W/pointer $4.95 Without, $3.95

HEWLETT-PACKARD knob from test equipment, 1-3/8" dia skirt, ¾" high; brass insert for ¼" shaft. $1.00

1-5/8" DIA. FLUTED KNOB W/2" SKIRT; FITS ¼" SHAFT. URC# S-649, $1.25 NEW

1-1/8" dia X 1-1/8"H knob with provision for attaching skirt; brass insert for ¼" shaft. #KNB030 $.50

MODERN GREY KNOB w/fine-ribbed side. 1⅜" dia X 9/16"H. F/¼" dia sh. #7577 NEW $1.



1⅛" dia fluted knob with 2" dia skirt; brass insert f/¼" shft. #0728 NEW $1.00

1" DIA. FLUTED KNOB WITH BRASS INSERT FOR ¼" SHAFT. KNBN008 $.25

ALL THE ABOVE KNOBS ARE OF SET SCREW TYPE.

SPIN KNOBS

2" DIA. METAL FLUTED SPIN KNOB FOR 5/32" SHAFT. KNBN009 $.79

2½" DIA. SPIN KNOB. METAL. TAKES 3/16" SHAFT. #8089 NEW $2.00

MAKE ANY FLAT KNOB A SPIN 1¾" ADAPTER WITH 3 HOLES, TO FASTEN TO YOUR KNOB, WITH SPIN GRIPPER #2Z5816-3 $1.00

1-5/8" DIA. METAL SPIN KNOB F/⅜" SHAFT. URC#KN02, $1.50

1½" DIA. FLUTED KNOB W/1⅜" SKIRT; BRASS INSERT FOR 3/8" SHAFT. URC#KN04, $.50

1-5/8" DIA. FLUTED KNOB W/ 2" SKIRT; BRASS INSERT FOR 3/8" SHAFT. URC#KN03, $.75

Brown 1" dia x ½" high knob for ¼" shft. #KNB025, 2/25¢

HAMMARLUND DIAL #31227-3 2½" silver skirt marked 10 to 0; 1-5/8" dia knurled knob. #E9821, NEW, $1.50

MATCHED KNOBS, rounded edge w/4 sets of 4 hash ridges. Looks like old Hammarlund. #E5168 2⅛" $3 #E5570 1⅛" $2

HALLICRAFTERS with big 1⅛" dia; arrow & grip bar. #H81014 new $1.50

BAR TYPE KNOBS

BAR TYPE BAKELITE KNOB FOR ¼" SHAFT. 1⅜"x⅜"x5/8". SET SCREW TYPE. KNBN012 $.25

BAR TYPE BAKELITE KNOB FOR ¼" SHAFT WHICH MUST BE TAPED FOR SET SCREW. 1⅜"x⅜"x5/8". KNBN013 $.25

RECTANGULAR BAR TYPE BAKELITE KNOB 1¼"x½"x5/8". WITH BRASS INSERT FOR ¼2 SHAFT. SET SCREW TYPE. KNBN014 $.25

Pointer knob with brass insert for ¼" shaft; 1⅜x1x⅝. #KNBN026 25¢ ea

Bartype bakelite knob with pointer. For 1/8" shaft; vertical set screw. 1⅛"x5/8"x⅜". KNBN016 4/$1.00

Rounded bar style knob, 1-1/8" long x ¼" across x 11/16 H. Brass insert f/ ¼" dia sh. #KNART13 3/$1.

ALCO-KNOB, 1" dia x 5/8" high modern style fluted knob with 5/8" dia chrome center trim; brass insert for ¼" shaft. NEW 3/$1.

1-5/8" dia plastic knob with 2⅛" dia aluminum skirt calibrated 0 to 10. Brass insert for ¼" dia shaft. #9414 NEW $.50 ea

1" dia plastic knob with 1⅛" dia skirt calibrated alphabetically A-B-,,.Y-Z. Aluminum skirt; f/¼" shaft. #5312 NEW $.50 ea

3/4" RIBBED KNOB 7/8" DEEP 1" SKIRT F/¼" SHAFT DULL BLK.KNB7820 35¢

5/8"x3/4" SAME AS ABOVE BRIGHT BLK.KNB1261 20¢

1" dia. x 11/16" high knob, Ribbed style; Insert re-sessed ¼" from base for flush fit. KNB2279, 30¢ ea.

1¼" KNOB MARKED "INCREASED OUTPUT". ¼" HOLE WITH SET SCREW. ⅜" THICK, METAL. KNBN023 $.25

2" TUNING KNOB black w/chrome-finish trim, Metal insert f/¼" d shft. #ROB-B/C $1.25

MINIATURE LAMPS

STK #	TYPE	V.	A.	BASE	BULB	EA	Per 10
#14 flashlight		2.47	.3	cand sc	G-3½	.30	$2.00
#382		14	.08	min flanged	T-1¾	.35	2.50
#327 grain of wheat		28	v 0.04	a	T-1¾	.39	3.00
#12V-25W Standard lightbulb for 12 VDC 25 watts							$1.25
#511		2	.25	min sc	G-6	.20	1.00
1004 auto type		12	.94	DC bay	B-6	.25	1.50
NE-48/991 neon		115	.25	DC bay	T-4½	1.50	12.00
NE-51 neon		115	.25	min bay	T-3¼	.40	3.00
2Z5882		18	.11	can sc	T-3¼	.20	1.00
#47		6.3	.15	min bay	T-3¼	.25	1.50
#24-68M		24	.68	DC bay	B-6	.25	1.50

SEALED BEAM

MARINE TYPE 600 WATT 28 VOLT GE Q600 PAR 56/1 SCREW TERMINALS PRICE: $6.00 EA. WRITE FOR 100 LOT PRICE.

GRIMES LAMP ASSY. #4725-24 WITH 327 GRAIN/WHEAT BULB. 6220-333-5827 59¢ EA. 2 FOR $1

LINE FILTERS

RF LINE FILTERS, unused.

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SIEMANS #B84104K, 3 amp 115/230 VAC 60 Hz; plug & lead connect. 1⅛x2⅛x2, 1 lb. $1.

#410-3, 2x5 amps 125/250 VAC 50-400 Hz; four solder terminals. 2x2½x1½, 1 lb. $1.25 ea.

Sprague #JN10-2296A1, 2x12 amp 250 VAC 60 Hz; solder terminals. 2½x1¾x2, 2 lbs. $3.95

Sprague #JN17-2028A, 300 amps 100 VDC; lug terminals, 7½x3 mtg plate. 7 lbs. $12.95

#537-6615, 55 amps 30 VDC; two stud terminals. 2¾x5x2, 3 lbs sh wt. $2.95

SCR HEATSINK ASSY

SILICON RECTIFIER BRIDGE, single phase half-wave; GE #C14114CX5 or equivalent. Rating approx 500 V 35 amps. 7x6½x5, 4 lbs sh. #KS-19576L1, used, ~~$8.95~~ $6.95

SPRAGUE #JN14-1551A 3 X 50 AMP 440 VAC 60 Hz LINE FILTER, 11¾x 9½x3½, 18 lbs sh. NEW, $18.95

GENISCO GF-1901-75D 75 AMP 250 VAC/600 VDC FILTER, knock-outs for hook-up; long style 21¾x4x4, 23 lbs. NEW $14.

RG-367/U FITTING

ANDREWS TYPE 79R FITTING for 5" dia coax H9 or RG-367/U; 50 ohm, 6-1/8" dia EIA flange. 19 lbs sh. Unused w/kit, ~~$100~~ $60.

ADJUSTABLE ALUMINUM SHOCK-MOUNT WITH FOUR 1⅛-3 LBS. SHOCKMOUNTS. PERFECT FOR SMALL POWER SUPPLY, AMPLIFIER OR OTHER GEAR. FITS 5-1/8"W X 6¾" TO 7¾" DEEP UNIT; 2" HIGH. SH WT: 3 LBS. #MT-569A/ARA, UNUSED, $2.50

NATIONAL HRO COILS

Individual coils for HRO receiver coil set plug-ins. Unused, $2.50 ea; 4/$8.00

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KHZ

50-100: E112, E115/B143 E114/B144

100-200: E109/B139 E110 E111

175-400: B112, B113

900-2000: B120

2-4 Mhz: B123

4-7 " : B127, B128, B129

7-14 " : B130, B131

14-30 Mhz: E80, E87

BC-610

BC-610 XMITTER PLUG-IN TUNING UNITS, 4 lbs.

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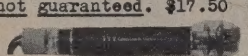
#	MHZ		Price
C-387D	2-3.5	WVL	$7.50
C-388C	3.5-4.5	WVL	7.50
C-389C	4.5-5.7	WVL	6.00
C-390C	5.7-8.0	WVL	8.00
C-447B	8-11.0	WVL	6.00
C-449B	14-18	WVL	6.00

TU-47 (2.0-2.5 Mhz), TU-48 (2.5-3.2), TU-49 (3.2-4.0)
TU-50 (4-5), $7.50 each
TU-52 (6.35-8.0 Mhz) $7.50
TU-54 (12-18 Mhz), $12.00

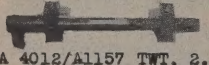
VACUUM CAPACITOR by Jennings with connectors. Unused.
3.0mmf 15kv "Y" $2.75
Jennings or equal mfg.used.
12mmf 20kv "VC" $10.00
50mmf 20 Kv "VC" $12.00

TRAVELING WAVE TUBE

EMI 7640 TWT, similar to Hughes 313H; 2.0-4.0 Ghz, 1 KW output, 30 db. 16⅛x3⅝x5; 20 lbs. sh. Sold as an experimenter's item only; not guaranteed. $17.50



ITT D-2013 CW TWT, 5 watts 33 db gain, 8.0-9.6 Ghz; 6.3 v. heater. 12xl⅛" dia. 3 lbs. sh. Unused, $45.00

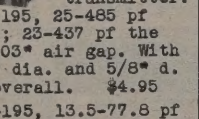


RCA 4012/A1157 TWT, 2.0-4.0 Ghz, 36 db min., 20 MW min. 15⅛"l x 3⅛"h x 1⅛"w. 4 lbs. sh. Unused, $40.00

VARIABLE CAPACITORS, removed f/ T-195/GRC transmitter.

#C-222/T-195, 25-485 pf one sec. ; 23-437 pf the other. 0.03" air gap. With gears 1⅛" dia. and 5/8" d. 4⅛x3x4¼ overall. $4.95

#C-221/T-195, 13.5-77.8 pf one section; 17-99.6 pf the other. 0.094" air gap. ⅜"x ¼" dia. shaft. 5¼xl⅛x3¼ overall, 2 lbs sh. $3.95



20-400 PF 0.02" gap. Ceramic insulation, silver plate. 5/8x⅞" dia shaft. 4xl-5/8 xl⅛. #C-1003/T-195, $4.95

TCS VARIABLE CAPACITOR, 2 SEC. 10-360 MMF, ONE SEC 10-360 MMF, 3 BAND CALIBRATED DIAL 4" 1.5 TO 12 MHZ SIZE: 7x3½x3⅜; WT: 10 LBS. #881 $3.95 USED

SINGLE SECTION 11-67 pf .05" spacing. Has three front mount spacers for #6 screws Shaft 3/8x¾" dia; o/a 3¼x 1-7/8x2⅜. #3D9067VEB $3.95

RBF-3-14A164, 10-40mmf gap 0.04". 2Kv.3⅛x2⅝x2 $2.95

HAMMARLUND VAR. CAPACITOR 20-90 pf 0.05" spacing. Silver-plated, 0.04" thick plates. Right angle worm and split gear drive. Shaft ⅛" x ¼" dia. 4⅛x3½x3¾ #446-6571 $9.95

5-GANG 402 PF

5-GANG 13-402 pf/section w/removable gearhead for spline tuning or ¼" dia shaft. 10x4x2⅜, 2 lbs sh. #C111/ARN-6, $5.95; 2/$10.

SINGLE SECTION 14-365 pf 0.03" gap. Shaft 1-5/8x¼" dia; o/a 4-5/8xl-5/8x2⅜, 2 lbs. #3D9365V-2, $4.95

THREE GANG, 15-85 pf/gang 0.03" gap; 3¼xl-5/8x4⅝. #074-049 unused $4.95

3-GANG, 15-160 pf/section, 0.02 air gap; ¼" dia shaft 1⅛x4⅛xl⅛. #3TH160, $3.95

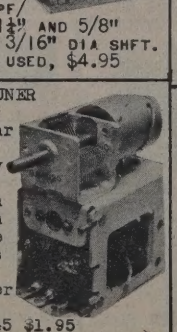
BC-624 RECEIVER R.F. TUNER ASSY 100 - 156 MHZ A.M. W/VARIABLE CAP., COILS, TUBE SOCKETS. OSC. SEC. P/O SCR-522 5x5x5; WT: 7LBS 2ZK11150 USED $3.95/N $5.95

3-GANG, 2/25-500 pf & 20-180 pf; 5/8x¼" dia shaft. 4½xl⅝xl⅛; #ASP4741, $4.95

3-GANG, 2 sec 20-365 pf, 1-sec 17-175pf; ⅜x½" dia shft. 3½xl⅝xl⅛; #5740, $3.

2-GANG 6-16 pf/gang 0.05" gap. Silver-plated with brass gears; p/o TS-497 sig generator. 7/8x5/16" dia shaft; o/a 4x2-3/8x3. #3330-313, unused, $5.95

TUNING CAPACITOR F/RT-176/PRC-10, 38 TO 54.9 MHZ; 5-GANG, 5-33 PF/GANG. WITH 1¼" AND 5/8" DIA. GEARS; 3/16" DIA SHFT. 1⅜xl-5/8x4, USED, $4.95



BROADBAND TUNER 14-50 MHz 10-150mmf var capacitor mechanically coupled to iron slug in a coil which moves as the capacitor is rotated. various other components. 3½x2x3 #RT-45 $1.95

TRANS. CAPS.

DUAL 4-30 MMF 1000 VDC 1⅜x 1⅜x2, SHAFT ¼x⅝ P/O BC-640 CARDWELL 430/1M REM $2.95

DUAL 5-25 MMF 2000 VDC 1⅜x 1⅜x4⅛ SHAFT ¼x⅝ P/O BC-640 CARDWELL 525/2M REM $3.95

DUAL 4-20 MMF 2000 VDC 1⅜x 1⅜x3 SHAFT ¼x⅝ P/O BC-640 CARDWELL 420/2M REM $3.95

Single 12-65 pf, 0.06" gap; 3/8x¼" dia shaft, o/a 3¼x 1¼x2⅝. #CARD-427B NEW $5.

BC-624/522 RECEIVER, 3 GANG 6-36 MMF EACH SECTION WITH SLUG TUNED TRIM. SHAFT 5/16 STK#3D9036V SIZE: 4½x2x3¼; 1 LB. $1.50

Single 7-26.3 pf, 0.06" air gap; shaft ¼x¾ dia, o/a 2x2xl⅝. #C227/T235, $2.95

DUAL 6-22 MMF 1500 VDC 1x1¾ x2⅝ SHAFT 3/16x½ TELERADIO 622/1SM NEW $1.95

TRIMMER 9-143 pf silver-plated; standard/SCD adjust. ¼x¼ shaft; o/a 2¼xl xl¼. #C228/T235, $2.50

#P-7761569, 14-62 pf, 1x¼" dia shft. 2¼x2⅝x4⅛, $3.95

#T-7660443-8, 8-26 pf, 5/8 x¼" dia shaft. Overall 1⅝x2⅝x3, 2 lbs. $3.95

1-GANG 15-160 pf, 0.03" gap; shaft 1½x¼" dia, o/a 1¼x2¼xl⅛. #1TH160, $2.50

JOHNSON "M" SERIES, 3/16" dia slotted shafts; o/a 1-5/8x⅝x5/8. Used: #160-110/20M11, 2.7-19.6 pf; 21 plates, $1.10 #160-130/30M8, 3 to 32 pf; 28 plates, $1.25

PRE-SELECTOR UNIT ASST PART OF R-48 REC. 230-250 MHZ. CONSISTS OF RF, MIXER & OSCIL. USING 6AG5-2 EA. 9002-1 EA. TUBES (LESS TUBES.) FOR USE WITH 30 MC I.F. SIZE: 6x5⅝x4; 5 LBS. USED $5

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GLASS PISTON CAPACITORS #VCJ-770, 15 pf 5/8x¼ $1.

VC-30G, 30 pf 2x¼ $1.00

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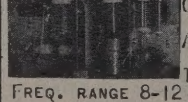
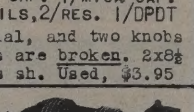
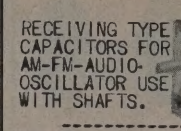
AIR CAPACITORS, 0.02" spacing; shft ¼x¼ d, 3xl⅝xl⅛ #21105-14 8-20 pf $1.50 #21105-15 8-35 pf $1.65



TU-53 OSCILLATOR PLUG-IN ASSY. FOR BC-610 TRANSMITTER FREQ. RANGE 8-12 MHZ. CONTAINS VAR. CAPACITORS WITH SHAFTS 140 MMFD, 190 MMFD. 2/CERAMIC CAP. 1/MICA CAP. 4/R.F. COILS, 2/RES. 1/DPDT switch, dial, and two knobs Rear plugs are broken. 2x8⅛ x4⅛, 4 lbs sh. Used, $3.95



5-25 PF CAPACITOR, worm gear & ceramic insulated shaft and stators. Rotor plates on common metal shaft; .03" gap. Rating made with two sections in series. May be modified into two 10-50 pf sections. Gear shaft: 1"xl/8"d. Other 5/8"x¼"d. O/A 4⅛x2xl⅛. Silver-plated. #710-4608 $6.95



RECEIVING TYPE CAPACITORS FOR AM-FM-AUDIO-OSCILLATOR USE WITH SHAFTS.

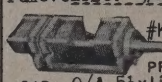
#48842 DUAL 12-90 MMF & 15-140 MMF SIZE 1x1x⅞ $1.00

#66972 DUAL 9-50 MMF & 1-100 MMF, SIZE 1x1x⅞ $1.00

#330V020-H02 DUAL 10-90 & 14-140 MMF 1⅛x1⅛x1 $1.25

#074-050J-2, 8-20 pf, ⅜x¼ shaft. $1.25

Dual 5-15mmf, ceramic, w/friction gear to hold setting. 0.04"spacing. 2⅜xl⅜xl-7/8 in ¼x¼in dia shaft. coil& gear removeable. #358-3164 $1.95



#KS21146L1, 3-GANG, 7-60 PF/SEC. 0.03" GAP. O/A 5¼x1⅜x1⅛, $3.95

2.3 to 14 pf, ⅛x3/16" dia shaft. #228-6085, $1.25

3D9200V-19, 4-gang 14-200 pf/gang; ¼x¼ dia shaft, o/a 6x2¼x3¼. p/o R174 used $5.

SINGLE 10-100 pf, 0.02" gap; ⅛x⅜" dia shaft, o/a 2¼xl¼xl½. #3D9100V $1.95

AIR PADDER CAP

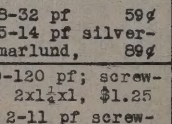
ALL PADDER CAPS. REQUIRE SCREWDRIVER ADJUST.

351-1054	2-8 PF	49¢
D3535	2-20 PF	49¢
CTN48785	5-17 pf	49¢
657-J3	8-55 pf	79¢
SEL72265-2	8-32 pf	59¢
3D9011V-7	5-14 pf silver-plated Hammarlund,	89¢

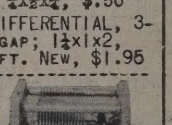
#CT1C100, 10-120 pf; screwdriver adj; 2xl¼xl, $1.25

#C653/R174, 2-11 pf screwdriver adj; ⅝x⅝x½, $.50

#3D9006V-7 DIFFERENTIAL, 3-6 PF, .045" GAP; 1⅛xlx2, 1⅛x¼" D. SHAFT. NEW, $1.95

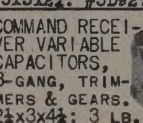


20-260 PF 0.02" air gap. Tapered plates for linear frequency; precision worm and split right-angle gear drive. Double shaft ¼" lg X 3/16" dia each end. O/a 5x3x2¼. #3D9270V-4 $12.95

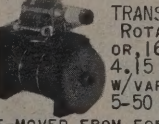


COMMAND RECEIVER VARIABLE CAPACITORS, 3-GANG, TRIMMERS & GEARS. 2½x3x4⅛; 3 LB.

#6558, 62 PF, 6-9 MHZ, $4.



TRANSMATCH ASSY ROTARY INDUCTOR, 16 TURNS, .5-4.15 MICRO-HY. W/VARIABLE CAP. 5-50 MMF. 2000V RE-MOVED FROM EQUIP. DESIGN FOR 14-50 MHZ. SIZE: 2½x5x5 4 LBS. #B8H502 $6.95



PRECISION TANK TUNE CAPACITOR 25-220 pf w/right angle worm gear reduction tuning. 0.03" spacing; 1"x¼"dia shft, o/a 4⅜x2⅝x3¼. Remove f/equip. #C9/SG-15, $8.00

1820-2520 MHZ

PRESELECTOR, two separate cavities having 21 Mhz band width and 3 db insert loss © 1715 Mhz. 1N21B crystal mixer 120 Mhz output from 1820-2520 Mhz injection. "C" and "BNC" connect. 9⅛x x3½x3⅜ 4 lb. #PRE/TRC29 $20.

#2SLT/TRC29 2-SLUG TUNER, provides isolation, coupling, and impedance matching between 50 ohm klystron output and P-A input. Two slug adjust. 10xl⅛x1⅛ $8. UG-573 C-conn. Used, $1.25

#3CPR/TRC29 TRIPLE COUPLER which fed P-A. 36 db and 65 db RF outputs; DC output for P-A meter. 4 "C" connections and one 1N21 connector. 5⅛x2⅛xl⅛ $9.95

AM & FM TUNERS

AM FREQUENCY 550 - 1600 KC
FM FREQUENCY 88 - 108 MC
UNITS HAVE NOT BEEN USED

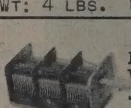
F.M. TUNER WITH 1/ 12DT8 TUBE & DIAL. SIZE 3x2x URC#462 $3.95
A.M. & F.M. TUNER SAME AS ABOVE URC#2H02 $4.95

SPIRAL INDUCTO TUNER 60-90MHZ W/50PF PARALLEL 3 SEC. SILVER PL. 4⅜ TURNS. 3⅝x1⅛x2 #37695 RE-MOVED $5.95

LC-902 ANTENNA INPUT TANK FOR TN-2A/APR-1 TUNING UNIT, FREQ. 76 TO 300 MHZ. WITH VARIABLE CAPACITOR, COIL, AND 955 TUBE SOCKET. SIZE: 4½x3 WT: 4 LBS. UNUSED $5.95

LC-702 ANTENNA MIXER TANK FOR TN-3A/APR-1 TUNING UNIT FREQ. 300 TO 1000 MHZ. WITH VARIABLE CAPACITOR AND COIL SIZE: 2⅝x3⅜ WT: 3 LBS. PRICE: UNUSED $3.95

LC-701 OSCILLATOR TANK FOR TN-3A. WITH VARIABLE CAPACITOR AND COIL. SIZE: 4⅜x4 WT: 4 LBS. UNUSED $4.95



RECEIVER STYLE VARIABLE CAPACITORS, 500 V spacing; ¼" dia shaft. 3½xl⅛xl⅛, unused.

3-gang, 25-500 pf/gang; geared tune. ASP3496 $5.95

3-gang: 2/25-460 & 25-180 pf; #9776 $4.75

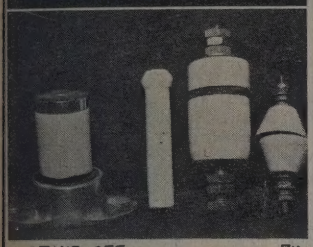
3-gang, 20-360, 20-280, & 20-110 pf; 2-speed drive ¼" and 1/8" dia shaft. #33V021H01, $2.75

2-gang 25-460 & 35-200 pf, 3/8" dia shaft. O/a 2¼x 1⅝x2. #221657, $2.00

#C2/R174, 5-42 pf trimmer; 1x¼"dia sh, 1⅛xl¼xl⅛ $1.25

#C44/R174, 5-55 pf trimmer; 5/8x¼" shft, 1¼xlxl⅛ $1.50

INSULATORS



STAND-OFF, CROWS FOOT, 7" Hx1¼ D.CAST BASE, 2¾ CTRS. TOP CAST W/3/16"-20 SCREW
#5970-405-8992 $4.00
SIMILAR, ABOVE 3" 3.00

FEED-THRU INSULATOR (FIG2 1/2" HOLE 7/8" DIA. W/NECK
3" LONG 30¢
6" LONG 50¢ 8" LONG 60¢
STOCK NO. 1014-(LENGTH)
SAME AS ABOVE OVAL TWIN-

PORCELAIN STAND-OFF INSULATORS, SCREW THREADED.
#P-4H-.75D, 8-24 THRD, $.50
#P-5H-.75D, 8-24 THRD, .65
#P-6.75H-1D, 10-24 THR, .85

STRAIN INSULATOR, 3x2¼" dia; ¼" to ½" dia taper feed-thru core. 1 lb sh, #STR-84 $.95

IN-88 SPREADER INSULATOR, 2⅜x⅜"dia; 1/16" hole, 4/$1.

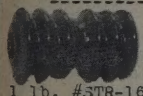
STK.#3G584 IN-84 FEED-THRU CONICAL SHAPE, 5" LG. O/A; 2 CONICAL SHAPED 1-1/8 LG. X⅜ DIA. AT BOTTOM, 1" AT TOP, 1/4" DIA. ROD WITH 1/4 20 THREAD WITH NUTS/WASHERS ½LB. 25¢ EA. 5 FOR $1.00

GLASS-BONDED MICALEX STRIPS 10"Lx1"Wx5/8"Th. Five holes .2" dia. #3G110-160, $1.50

GE #X7102768P1, same as above, 7-3/8"Lx3⅜"Wx3/8"Th. Ten holes, $3.00 ea.

INSULATOR THREADED BRASS EACH END FOR 1/4" SCREW.
#CLASS 16U-2¾x1¼" $2.
" 16U-3¾x2" $3.

INSULATOR STANDOFF FEED-THRU, THREADED ONE END; 3/8" HOLE. ACE-3"HX1¼" $1.



STRAIN INSULATOR, 4¾x2¾" dia; 1" dia core feed-thru 1 lb. #STR-1610, $1.95 ea

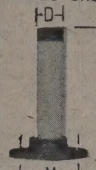
STRAIN INSULATOR
BROWN 2¾"x 1⅜" ⅜" HOLES EA END, OPPOSITE SIDES. #3G100
PRICES: 79¢ EA. 4 FOR $3.
BOX OF 200 $125.00

ART-13 TRANSMITTER ANTENNA INSULATOR PANEL; WITH 3½x4 OBLONG INSULATOR WITH TWO SPRING-TYPE BINDING POSTS. ALSO A ¾x1 AND A ¾x⅝ CONICAL INSULATORS WITH PUSH-TYPE BINDING POSTS. WT: 1 LB. COMPLETE ASSY. USED $1.00

STAND-OFF INSULATOR H-1⅛, B-1⅝, A-⅝, 1/4" BOLT REQ. 1⅜" MTG HOLE #PP-1048 NO HARDWARE
3 FOR $1.00

STAND-OFF'S

STAND-OFF INSULATORS, CROWS FEET TYPE. BRASS AND PLATED BRASS BASES AND TERMINALS.



D=DIAMETER
H=HEIGHTH
M=MOUNT BASE HOLES' CENTER DISTANCES
ST=SCREW TERMINALS
CT=CLAMP TERMINALS

#B-H3-D1.25-ST3, BROWN CERAMIC; M=2.25". TERM. CAP SIZE: 7/8x1-5/8" DIA. SHPG. WT: 2 LBS. $2.75
#B-H4-D1.25-ST2, WHITE; M-2.25". TERM CAP: 1x1-5/8" DIA. 3 LBS. $3.25
#XW-H5-D1-ST, WHITE; M-2.25 TERM CAP: ⅜x1" DIA. $3.00
#W-H5-D1.25-ST, WHITE; M-2.625". TERM CAP: 3/8x1¼" DIA. 3 LBS. $3.75
#B-H5-D1.25-CT, WHITE; M-2.25". TERM CAP: 1x1-5/8" DIA. 3 LBS. $4.00
#BL-H6-D1.25-ST2, BLACK PAINT ON BRASS; M-2.625" TERM CAP: 1⅝x1⅛" DIA, SHPG. WT: 4 LBS. $4.25
#B-H8-B1.25-ST2, brown; M-2.625". Term cap 1x1¼" dia; 3 lbs sh. $5.50
#B-H7-D1.25-ST, BROWN; M-2.25". TERM CAP: 5/8x1-5/8 SHPG. WT: 3 LBS. $4.75
#W-H8-D1.75-NTTH, WHITE; M-3.75". NO TERM CAP; THREADED. 6 LBS. $5.25

FLEXIBLE COUPLING

CERAMIC FLEXIBLE COUPLING 1" dia x ⅝" for ¼" dia shaft. #COUN003-2, 45¢ ea

#COUN008; 2-5/8"dia x 2", for 3/8" dia shft. 79¢ ea

#COUN009; 2X2 CERAMIC COUPLING for 3/8 dia shaft. 69¢ ea

#COUN010; 3⅛" dia x 1⅝", for 3/8" dia shft. $1.25

AC LINE CORDS

3-COND. GROUNDED equipment cord, 8' #18 wire. Molded plug; black. #FW-3CG $1.25

#W14-3CG, as above but #14 wire; black. $2.00 ea

3-COND w/business machine plug, fits most Hewlett-Packard equip. Without AC plug; 5½'. #HP-3CG $1.50

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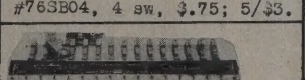
MORE --- DOLLAR DAZE

TOGGLE SWITCHES, SPST cut-offs, 5/$1.00 — 13

PUSH SWITCHES, SPST norm-open, 5/$1.00 — 14

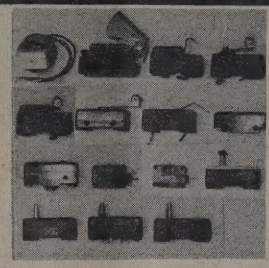
SLIDE SWITCHES, 2PDT and SPDT, 5/$1.00 — 16

SPST ROCKER DIP SWITCHES for PC board use. Can be soldered or fit in socket. Grayhill mfg. NEW #763B04, 4 sw, $.75; 5/$3.



SELECTOR SWITCH 15 BUTTON, MAKE ONE BREAK ONE, RELAY RELEASES ALL BUTTONS WHEN ACTIVATED, 115 VAC OR 24VDC
SIZE: 12⅜x7⅞x2; WT: 7 LBS.
URC#1524115 NEW $3.95

MICRO SWITCHES



SPST MICROSWITCHES 1-7/8x 5/8x1¼, 30¢ ea unless otherwise noted. Normally open-n.o. Norm closed-n.c.

#WHBT349A-1 n.o. lever

#YZ-3RLTC n.o. lever 15A

#SW-186 n.o. ext-pin

#WZ-RS9 n.o. ext-pin

#2MC3-1A n.o. pin; 1-5/8x ⅝x⅜ size.

#V3-23 n.o or #V3-21 n.o. pin; 9/16x1x1-3/8 size.

MU-SWITCH Type D in split dye cast housing; ⅜" tap conduit hub. 17/8.5 amp 125/250 VAC, new, 75¢

SPDT, one side n.o./other n.c.; 1-7/8x5/8x1¼, 40¢ ea

#3Z-3R244T4, pin style

#WHBT349B-1, lever style

#BZ-2R, button w/mtg 50¢

#V3-1 9/16x1x3/8 size

ARROW-HART 100 AMP 600 V AC tap switch 2-deck 2-pos on-off. 6¾x6⅝x4⅛, 15 lbs. #8944 NEW $12.

TAP SWITCHES

TAP SWITCHES, 120/240 VAC 10/5 amps unless otherwise noted; 2⅜"d. Used.

#AHH-23-10; 2-deck 3-pos w/knob $2.

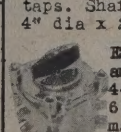
#AHH-230; 2-deck 3-pos and OFF. Cont. turn; 15/10 A. No knob; 3/16" d shft. $2.25

#AHH-33-10; 3-deck, 3-pos with knob, $2.50

#AHH-63-10; 6-deck, 3-pos with knob, $3.50

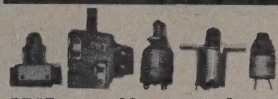
#AHH-2W-3W 3-pos with OFF. 120/240 VAC 30/15 A (2-wire), 15/15 amp (3-wire). 1-7/8x 1⅜x1⅛, 2 lbs sh. Used w/knob $2.50

OHMITE 412-12 TAP SWITCH, 12 taps rated 50 amps AC 300 volts, 150 V between taps. Shaft 1x¼" dia; o/a 4" dia x 2⅝, 4 lbs. $7.95



ES TAP SWITCH, 60 amp 500 VAC/250 DC 4-postion 2-deck, 6 cont/deck. Pos 1 makes cont 2-3, P2 (1-2-4), P3 (1-5), P4 (1-2-6). 5⅜x6x4⅛, 10 lb ES#125402A, unused $16.95

PUSH SWITCHES



DPST normally open, 1 amp 250 VAC; #PSW004 35¢

DPST interlock n.o., (3Z-9825/254), #PSW006 65¢

SPST pull switch, normally open, #PSW007 35¢

SPST normally closed case ground; #PSW008 35¢

SPST normally closed, Grayhill #4002 50¢

2-BUTTON momentary; red breaks, black makes. 3⅛x 1-5/8x1-1/8; #RB-BM $1.50

MULTI PUSH

SWITCHCRAFT DW-Type, each section DPDT 3 amps AC; 0.5 A DC 125 V non-inductive. Can use T-1¾ size lamp. NEW
#67097-506, 9-button Push-on/Push-off; 1x6¾x1⅝ $7.75
#67091K-506, 9-button interlocked, $6.50
#67137-506, 13-button Push-on/Push-off; 8¾"W. $9.75
#67131K-506, 13-button interlocked, $7.95

MINI-TOGGLES

MINI-TOGGLE SWITCH STRIP, 9-SPDT C&K U11 and one U15 momentary toggles soldered to PC board; 13/16"L handles. 2 lbs. #MT-9-1M $4.50

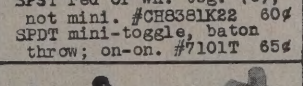
CUTLER-HAMMER mini-toggles, all 120 VAC 6 amp; NEW:
SPDT center-off $1.50 3/$4
3PDT on-on, $1.65, 3/$4.25
4PDT on-on, $1.75, 3/$4.50

SWITCHES

MINIATURE SWITCHES, all new Black: blk. White: wh.

DPDT on-on, blk. or wh button (a); C&K #8221, 65¢
SPDT on-off-on, wh. toggle (b); Alco #MLD106E, 75¢

SPDT on-on, blk. rocker (c) JBT #MR2-123, 65¢
SPDT on-on, blk. push-type Alco #MSP105D, 60¢
SPDT on-on 1-side momentary blk or wh push; CK8168 65¢
SPST red or wh. tog. (e), not mini. #CH8381K22 60¢
SPDT mini-toggle, baton throw; on-on. #7101T 65¢



DP3T one side mom. (f) toggle; Alco #CST-023TA, 2/$1
SPDT n.o./n.c., push button (g); Licon #76-2450, 2/$1
DPDT on-on slide (h), 6/$1.
DPST sub-mini slide switch; Chicago EIA 50, 5/$1.
Interlock switch (i); 10 A. Cherry #E69-30A, 2/$1.

SWITCHES

AIRCRAFT TYPE SWITCH TWO HOLE MOUNTING FIG. #1

CIR	CON	RATING	NO	PR
SPST	NEW	5/125	B-1S	.65
ABOVE MOMENTARY N/CLOSED				
SPDT	rem	5/125	B-9A	.50
(above center-off)				
SPDT	NEW	15/125	B-1B	.30
SPDT	REM	5/125	B-7A	.55
(CENTER OFF, MOM ONE SIDE)				

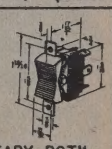
TOGGLE SWITCHES

TOGGLE SWITCHES SINGLE HOLE MOUNTINGS: CONDITION NEW & "REM" REMOVED FROM EQUIPMENT, ALL GUARANTEED.

CIR	CON	RATING	NO	PR
SPST	REM	8/125	8817K2	.35
(ABOVE SWITCH MOMENTARY)				
SPST	REM	6/125	SW-105N	.30
SPDT	REM	8/125	ST-13D	.25
• ("ON" BOTH SIDES)				
DPST	REM	3/125	7463954	.25
DPST	rem	10/125	ST-52K	.40
DPDT	REM	5/125	ST-22R	.35
3PST	NEW	15/125	SW3115	1.00
4PST	REM	15/125	7661K5	1.00

TEN PUSH SWITCH STRIP EACH D.P.D.T. INDIVIDUAL HOLD OR COLLECTIVE OR RELEASE. NEW 12x4x3/4; NO.4C5231 $2.25

ROCKER SWITCHES
0319 SPST
39¢ 3 FOR $1.00



0348 DPDT
59¢ 2 FOR $1.00

0320 SPDT MOMENTARY BOTH SIDES. 65¢ EA. 2 FOR $1.20

0347 DPDT MOMENTARY BOTH SIDES. 80¢EA. 2 FOR $1.50

PUSH BUTTON SELECTOR
WHITE BUTTONS, 1 THRU 4 SEPARATE CONTACTS, 5,6,7 MAKE 2,3,4 RESPECTIVELY W/ COMMON. RED BUTTON RELEASES ALL. RATED @ 120/240VAC 8A SIZE: 4⅜x1½x2½; WT: 2 LBS. GE#ASP8128-417 UNUSED $.75

LEVER SWITCHES

4PDT ONE SIDE 2PDT OTHER SIDE, BOTH SIDES MOM.# 1155 NEW $2.00

TV-2 tube test P1 lever sw; make 2-break 2. Removed $2.

2PDT ONE SIDE, OTHER 2 MAKE, P/O EE-2, USED $1.00

SPDT make before break and 2/SPST normally closed; single hole mount. Teletype #129596 (FSN #5930-259-6880), unused, $1.50

2PST ONE SIDE ONLY HOLD, CTR OFF, ONE HOLE MTG. SWITCHCRAFT 51J148 NEW $1

200/400 AMP TAP

#3238 3PDT TAP SWITCH with "off"; rated 200 amp 250 VDC or 500 VAC. 6x9⅜x9, 20 lbs; ES mfg. New $19.95

#0279 3PDT TAP SWITCH, no "off"; rated 400 amps 600 VAC. 9⅜x9x9, 25 lb. $29.95

EQUIPMENT BLOWERS

18 VDC 2400 RPM 5-BLADE FAN removed from oscilloscopes; runs well on 6 VDC. 7" dia blade rotation; o/a 8⅝"dia X 5½" depth. Includes eight single TO-3 heatsinks; 8 lbs sh. #B401/USM, used, $16.95

DUAL BLOWER, 3450 RPM 1/12 HP 115 VAC 60 Hz 1.1 A GE-motor; 3" inlet, 3⅛x2 outlet. W/capacitor; 11x6x6, 10 lbs. #GE-JG284 used $15.

TORRINGTON BLOWER, 200 CFM 220 V 3000 RPM (100 CFM 115 VAC 1500 RPM). 4" dia intake; 2¼x3 out. Outlet mtg 4" dia. O/A 7x7x7⅛, 10 lb Torrington #A13980, unused $18.95

EASTERN AIR TWO SPEED BLOWER, 2800/3200 RPM capacitor-start motor 1/40 HP 0.38 amp 115/230 VAC 50/60 Hz. Mounted on base w/4 mfd capacitor, terminal strips. Approx 150 CFM. Intake 3" dia, outlet 1⅝x2⅛. O/A 8⅜x11x6½, 14 lbs sh wt. EAD#B747M1-C, used, $12.95

FASCO DUAL BLOWER 50 C.F.M. 115 VAC 60 Hz 0.74 amp @ 2800 RPM. Outlets 2x1-5/8. One outlet is parallel to mounting base; other is at 90 , but can be modified as shown in picture. Inlets 2⅛"dia. Overall 7⅛x6x5¼, 12 lbs sh. Fasco type 21, #127S217, unused, $10.00

5-BLADE COOLING FAN removed from military power supply; 4½" dia rotation. 115 VAC 0.1 amp 3300 RPM; w/capacitor. 2⅝"D. #FAN-2054, $5.95

BLOWER/VACUUM, 115 VAC solenoid reverses intake/outake allowing unit to work as blower or vacuum. 1½" dia hoses; 6x8 dia, 12 lbs. #5M-CPB, $12. Less soelencid, $9.

5-BLADE 7" DIA FAN in 7⅛" dia X 6" h housing; 115 VAC 60 Hz. Can probably be adapted to duct fan. With 2 mfd capacitor; 9 lbs sh. #14-20/5B-DF, used, $14.95

4-BLADE 6" DIA FAN in conical 7⅛" to 5-3/8" dia X 7" high housing; 115 VAC 60 Hz. Adapt to use as duct fan. 8 lbs sh. #3M/4B-DF, used, $9.95

FAN-TYPE BLOWER, 115 VAC 60 Hz 20 watts; 4" plastic fan blades. Open frame low-noise motor in metal casement-type frame. Approximately 100 CFM. 13x5x2, 5 lbs sh. Howard #1075-3102, used, $4.50

HEATSINKS

9x4x1 1/8" ALUMINUM. DRILLED FOR 3/TO-3 #3T941 UNUSED $2.75

12⅞x5x1" aluminum w/3 or 4 TO-3 transistors. #HS-HSB used $3.95

HEATSINK PANEL has four 10x2-7/8x1¼ heatsinks and six 2N3055's on 10⅜ x14 panel; 9 lbs sh. #HS-M32, $12.00

#WE-H1D HEATSINK w/diode approx 100 PIV 25 amp; 5x3x1¼. Used, $2.50

#DHS, ANODIZED DRILLED FOR DO-4 DIODES. 3-7/8x2⅛x1-1/8, 2 FOR $1.00

DUAL TO-36 HEATSINK, 3x3⅜x1-3/8; flange mounting. #HSTO36, $.75 each

#3D523-8 HEATSINK, 5x3x1-9/16; drilled for 3 large stud rectifiers (1" dia recesses), $2.

#2D734 HEATSINK, 7x4½x2⅛, drilled with two 25/32" dia. holes. 3 lbs sh. Unused, $3.50

SERIES 680 HEATSINKS, 1¼" sq. NEW #1.0G-5-5, 1" high with 0.33" dia. hole for rectifier, 85¢ ea. #.75A-16-1, 0.75" high for TO-3 transistor, 75¢ ea.

COMPACT AXIAL FANS

AXIAL FANS, 4⅝" square X 1⅝" thick; 115 VAC 60 Hz. Removed from equipment; guaranteed. Rotron MUFFIN© or similar; 3-blade 14W $9.

5-BLADE axial fan in metal frame; 18 watts. Various manufacturers, used, $12.

ROTRON BT2A-1 BISCUIT© fan, right angle 1"x2" out-take; 115 VAC 50/60 Hz 16 watts, $12.95

SPRITE FAN

ROTRON MODEL SU2A3

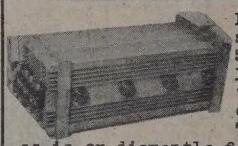
Small 3-1/8x3-1/8x1-5/8 size. Seven blade plastic fan in die cast housing. 115 VAC 60 Hz. 2 lbs. sh. NEW, $12.95

FIVE BLADE COOLING FAN, 4-5/8" dia. rotation; no enclosure. Mounting bracket hole centers 5-7/8" apart. 115 VAC 60 Hz. 2 lbs. sh. Airtrol #11-2100, NEW, $4.95

OPEN FRAME COOLING FANS, 115 VAC 60 Hz; metal or nylon blades. Removed from equipment.

#NCR-50, 5" blade rotation, $3.50

HEATSINK ASSEMBLIES

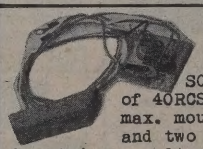


LARGE HEATSINK BANK consisting of five 12¾"L x 5"W x 1"Th heatsinks and 19 transistors similar to 2N3055's. Assembly originally part of 4 V. 75 amp power supply. Use as-is or dismantle for parts. O/A 13¼x5½, 12 lbs sh. Removed f/equip. #HSB4-75, $16.95

#75-4-2400 SERIES 400 HEATSINK with two 1⅝" dia. power rectifiers at least 100 PIV 100 amp each. Size: 5x5x6 w/1-5/8 fins. 8 lbs. sh. Removed, $20.

#75-4-400S SERIES 400 HEATSINK with 7/8" dia. SCR at least 100 PIV 100 amps. Size: 5x5x4, 4 lbs. sh. Removed, $5.95

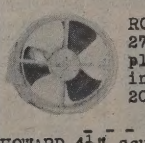
CROWBAR OVP



SCR CROWBAR CIRCUIT, consists of 40RCS5 SCR rated I_t 63 A 50 V-max. mounted with thermal switch and two resistors. Potted assembly has trigger voltage adjust 4-7 V. Use with 5 V supplies for overvoltage protection or modify for other uses. #CRBR-40, NEW, $3.50

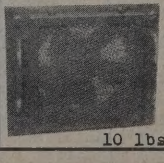
HOWARD 12 W BLOWER

HOWARD #1175-08-4 BLOWER, 115 V 60 Hz 12 watts; intake and outtake each 7/8" dia. Suitable for quiet cooling/blowing uses. O/a 4⅛x3½x3¼, 2 lbs. w/hose, $6.95



ROTRON 7" dia FEATHER FAN, quiet 270 CFM free air delivery; three plastic blades in plastic housing, 2⅛" depth. 115 VAC 50/60 Hz 20 watts max. Used-checked $14.95

HOWARD 4⅛" square equipment fan with 5/8" deep aluminum cast frame and five nylon blades. Heavy duty motor rated 19 watts; overall depth 2-5/8". Removed from equipment. #1175-08, $9.95



5-BLADE FAN, 6⅛" dia rotation; mounted in 9⅛x11¼ aluminum frame with 8x8 removable filter. Motor rated 105/125 VAC 50/60 Hz 1/40 HP 3350 RPM; 4 mf 330 VAC capacitor included. 5¼" depth behind panel. 10 lbs sh. #B201/MD141, used, $10.95

HEWLETT-PACKARD

HEWLETT-PACKARD TEST METERS, used-complete; add $30 for "checked" price. Manuals, $7.50 each when purchased with a meter.

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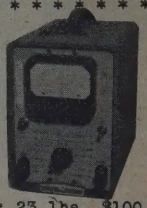


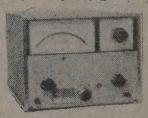
HP-400D VTVM, 0.0001 to 300 V-rms in twelve ranges; -50 to +60 db. 10 Hz-4 Mhz response. 23 lbs sh. Reparable, $65.00

HP-400DR, same as above, except rackmount; 30 lbs. $60.

HP-412A DC VOLTMETER, 1 mv to 1000 VDC in 13 ranges; also 1 microamp to 1 amp and 1 ohm to 100 megohms. Mirrored scale; 23 lbs. $100.

HP-413AR DC NULL VOLTMETER, 13 zero-centered ranges from 1 mv-1000 VDC; rackmount. $60.

HP-410BR VTVM, rackmount version of 410B on pg 31; w/probe harness $60. W/o harness $25.



HP-431B MICROWAVE POWER METER solid-state unit for 0.1-10 mw over 10 Mhz-40 Ghz depending on thermister mount; 10 lbs. No thermister mount $75.

HP-302A WAVE ANALYZER, 20-50000 Hz, 30 uv to 300 V fullscale; also frequency restorer, oscillator, and AFC circuits, $225.00

HP-313A TRACKING OSCILLATOR w/book, $395.00

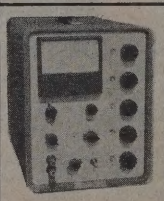
HP-202A FUNCTION GENERATOR, $50.00

HP-212A PULSE GENERATOR, $50.00

HP-739AR FREQUENCY RESPONSE TEST SET, 300 Khz to 10 Mhz in three ranges, $75.00

HEWLETT-PACKARD 650A TEST OSCILLATOR for 10 Hz to 10 Mhz in six ranges. Output 30 mv to 30 volts; 600 ohm impedance. Output attenuator 0-50 db in 10 db steps, flat ±1 db throughout range. 10½x19x15, 48 lbs sh. Used, reparable, $95.00; Cabinet for 650A, add $10. Manual, $8.50 w/purchase.

FLUKE 803D

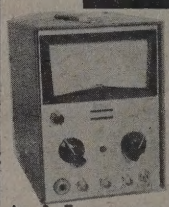


FLUKE 803D AC-DC DIFFERENTIAL VOLTMETER, 0.1-500 volts AC-DC. Designed accuracy: ±0.2% (AC), ±0.05% (DC). Response 20 Hz to 10 Khz. 115 VAC 60 Hz required. 12½x9½x16, 35 lbs. Used $49.50

FLUKE 801, earlier DC only version of 803D; used-reparable, $22.00

FLUKE 801R, rackmount 801; reparable, $20.00

HICKOK MULTIMETER



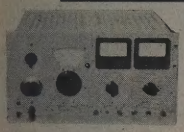
HICKOK 1604M SOLID-STATE MULTIMETER, achieves high gain by using chopper to allow use of AC-coupled amplifiers. AC response to 700 Mhz and AC volt ranges 0-0.5-1.5-5-15-50-150-300 VAC. Eleven DC volts full scale ranges from 0-0.5 V to 1500 V in 15-50-150 sequence. Fourteen DC current ranges 0 to 1.5 nanoamp to 150 ma in 1.5-50-15 sequence. Resistance ranges from 0-500 ohms to 500 megohms in seven steps. AC probe uses EA53 tube. Includes AC and DC probes, two test leads, and partial repro of manual. Requires 115/230 VAC 50-400 Hz. 7⅛x5⅛x9⅛, 13 lb sh. Used-reparable, $85. Checked, $125.00

T-CONNECTOR for 1604M, $20 w/purchase of set.

2400-3400 MHZ WAVEMETER

TS-117/GP WAVEMETER TEST SET designed for frequency measurements between 2400 and 3400 Mhz. Used to measure antenna radiation, local oscillator frequencies, relative field strength, and relative output. Q from 1800 to 2000. Includes 50 u-ammeter, sensitivity vernier, and frequency micrometer with conversion tables. Accessories AS-23 directive antenna, UG-183 cable, UG-57 and UG-131 adapters and transit case. Uses N connectors. 5x6x3, 15 lbs sh. Used, complete, $39.95 Less accessories, $29.95

SIGNAL GENERATORS



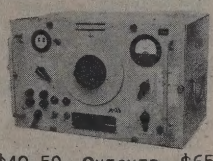
HEWLETT-PACKARD 606A, 50 Khz to 60 Mhz AM in six bands. Output: 0.1 uv to 3 volts into 50 ohms, vernier and step controlled. Features constant output and modulation and low distortion. 10½x19x13½, 50 lbs sh. Used, checked, $795.00

TS-418/URM-49, 400-1000 Mhz AM, CW, pulse. Output: 0.2 to 200K uv into 50 ohms. 12½x17¾x13½, 70 lbs sh. Used, reparable, $175.00

TS-419/URM-64, 900-2100 Mhz CW and pulse @ 1 MW max. into 50 ohms. Repetition rate between 40 and 4000 pulse/sec. Delay: 3 to 300 u-sec. 14x17½x11, 50 lbs sh. Used, reparable, $165.

HEWLETT-PACKARD 608ER SIGNAL GENERATOR, 10-480 Mhz AM; rackmount. Checked w/book, $495. HP-618B GENERATOR, 3.8-7.5 Ghz-reparabl $275

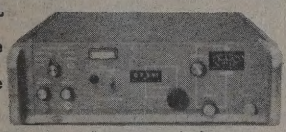
AUDIO OSCILLATOR



TS-382* AUDIO OSCILLATOR, 20 Hz to 20 Khz in four bands. Output: 0 to 10 volts across 1000 ohms. With built-in 60 and 400 Hz reed frequency meter. Size: 10x12¾x18¾, Shpg. wt: 50 lbs. Net: 45 lbs. Price: Used, reparable, $49.50. Checked, $65.

TS-382F AUDIO OSCILLATOR, most recent version TS-382. Used, reparable, $60. Checked, $75. TRANSIT CASE f/TS-382F, used, $10.00.

3.7 TO 8.4 GHZ GENERATOR

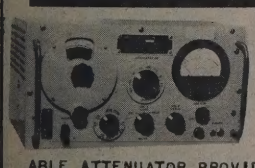


POLARAD 1107 SIGNAL GENERATOR, 3.70 to 8.40 Ghz CW, square wave, and sawtooth FM; has three place mechanical digital tuning. Output attenuator continuously tunable from 0.1 u-volt to 300K uv. Internal square wave and FM rate 800-1200 Hz; FM sweep adjustable over 5 Mhz most of band. 2/A713441 transistors and tube 4/0A2, 3/12AX7, EL34, 8068, A160011 Polarad # klystron. Requires 115/230 VAC; 5½x16¾x18¾ 50 lbs sh. Used-reparable w/book, $350.00

KLYSTRON POWER SUPPLY

HEWLETT-PACKARD 715A KLYSTRON POWER SUPPLY for low power klystron tubes. Output -250 to -400 VDC regulated 30 to 50 ma for the beam electrodes and 0-900 VDC regulated for the reflector electrode. Reflector volts can be modulated by internal 1 Khz square wave or externally; square wave modulation adjustable up to 120 V peak-to-peak. Frequency modulation for 60 Hz sine wave 0-350 V p-p. Requires 115/230 VAC 50-60 Hz. 7½x11½x13½, 26 lbs sh. Used, with output cable, $49.50; Less, output cable, $39.50

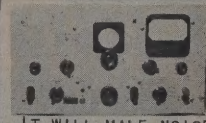
VOLTMETER-VLF RECEIVER



ME-71/FCC AUDIO LEVEL METER, covers 20 to 500 Khz continuously tuneable. As selective detector, it measures RF carrier across a 135 ohm balanced or 600 ohm unbalanced line. Variable attenuator provides input sensitivities from -70 to +42 DBM indicated on 3½" dia. meter. Includes 100 Khz calibrator. Input impedance: 10K ohms. Audio gain and two phone jacks. Various models ("C" pictured). Power required: 115 VAC 60 Hz. 17x14x9; 40 lbs sh.

ME-71, w/National-type dial, used, $40.00
ME-71B, used, reparable, $45. ME-71C, $50.
Operational, add $30. MANUAL, repro, $8.50

DISTORTION ANALYZER



HEWLETT-PACKARD DISTORTION ANALYZER MODEL 330BR. Will give quick accurate measurements of distortion as low as 0.1% at any freq from 20 cps to 20,000 cps It will male noise measurments of voltages as smal as 100 microvolts. The analyzer has high sensitivity and high stability. Its cir cuit 20 db amplifier, oscilliscope terminals, and precision vacuum tube voltmeter which is useable separately. Exceptionally usefull for all kinds of audio measuements in recording, broadcast, motion picture, laboratory etc. Size: 8⅝x19½x13½ (rackmtg) wt: Shpg. 40 lbs. Prices: Used Reparable $185. Checked $225.

TS-723-C SPECTRUM ANALYZER, military version of HP-330B; Used, rep, $165. Checked, $210

FM SIGNAL GENERATOR

SG-12/URM- FM SIGNAL GENERATOR, 19.5 to 102 Mhz FM in five bands with deviation ranges 0 to 25, 50, and 100 Khz; 1000 Hz modulation. Also IF outputs on 1.4, 2.515, 2.65, 2.88, 4.3, 4.45, 5.0, 5.35, 15 Mhz, plus two spare positions. Calibrated output voltages: 0.5 uv to .01 volts (RF); 0.5 uv to 1.0 v (IF). Output impedances: 10 ohms (RF); 25 ohms (IF). With 1 Mhz and/or 2 Mhz crystal calibrator markers. Power required: 115/230 VAC 50-1000 Hz. Size: 12x18x12; Shpg wt: 85 lbs. Used, reparable, $65.00; Checked, $125.00 MANUAL, partial repro, $12. TRANSIT CASE $15.

10 KHZ TO 50 MHZ

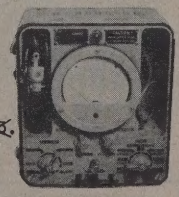
AN/URM-25F SIGNAL GENERATOR, covers 10 Khz to 50 Mhz AM in nine bands. RF output: 0.1 to 100K microvolts into 50 ohms; 2 V adjustable across high load impedance. Modulation 0-50%, 400 or 1000 Hz internal. 1 Mhz calibrator; designed accuracy ±0.05% above 10 Mhz Requires 115 VAC 50-100 Hz. 11½x14x10½, 44 lbs. Used, reparable, $145. Checked, $210.00

ACCESSORIES available w/purchase of URM-25F:
BOOK-partial repro, $10. DA-109 Dummy Load $6
CX-2919 Test Lead Adapter, $7.50
CU-406 Impedance Matcher, 500 ohms up, $7.50
CU-408 Impedance Matcher, 70 ohms, $7.50
BNC Cables, 6", $1.00; 4 feet, $1.50

SPECIAL SALE VTVM's!

* *

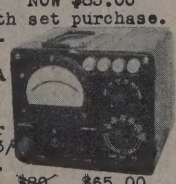
VACUUM TUBE VOLTMETERS at reduced prices due to special quantity purchase. All are used.



TS-505/U, ranges 0 to 2.5, 5-10-25-50-100-250-500 Vrms plus 1000 VDC scale. Also X1 thru X1 Megohm ranges. Response: 30 Hz to 5 Mhz. With AC, DC, and ohm probes. 9¾x9x6, 17 lbs. Reparable ~~$45~~ NOW $20. Checked, ~~$65~~. $45.

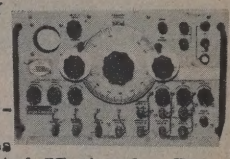
MANUAL, partial repro, $8.50

HEWLETT-PACKARD 410B, features 20 Hz to 700 Mhz response with full scale ranges 1-3-10-30-100 and 300 Vrms plus 1000 VDC. Resistence scales X1 thru X1 Meg. High frequency AC probe has EA53/2-01C tube. 11½x7½x8¾, 15 lbs sh. Reparable, ~~$89.50~~ NOW $59.50 Checked, ~~$109.50~~ NOW $85.00 Manual, $8.50 with set purchase.



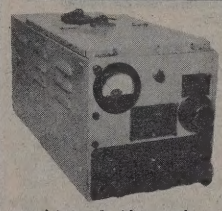
ME-180/USM-116, similar electronically to the HP-410B, set has added 0.02 to 1000 MA DC feature. Response to 100 Mhz with AC probe and to 700 Mhz with optional T-connector accessory. AC probe uses 6923/EA52 tube. 7x8½x9, 21 lbs sh. Reparable, ~~$55~~ $35. Checked, ~~$80~~. $65.00 T-connector, $10 w/set. Manual, par-repro $10

FREQUENCY COMPARATOR



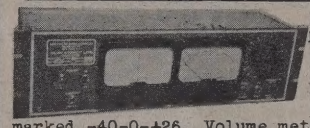
CM-212/USM-144 FREQUENCY COMPARATOR, used wit frequency counters to determine with high accuracy frequencies from 10 Mhz to 12.4 Ghz; similar to Hewlett-Packard 540A oscillator. Measures CW, FM, and pulse modulated RF signals. Unknown signal is fed into USM-144 and is compared to a mixed frequency generated from a stable, continuously adjustable fundamental from 100 to 220 Mhz. Difference in the unknown is shown on 2" dia CRT (2BP1) display. Final determination of the input signal made by the zero beat of the fundamental multiplied by the appropriate harmonic. Requires 115 VAC 50-440 Hz; 13½x19½x13½, 65 lbs sh wt. Used, reparable, $99.50
TRANSIT CASE $10 w/purchase. MANUAL $10 w/set

0.1-10 GHZ FREQ. METER



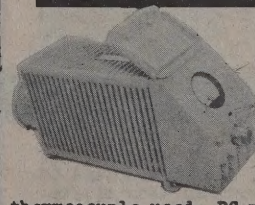
TS-186/UP FREQUENCY METER, measures frequencies from 100 Mhz to 10 Ghz using harmonics of a 50-1250 Mhz heterodyne oscillator. Zero beat dial readings are interpolated into frequencies via a calibration book. Zero beat indicated on an 0-1 milliammeter or monitored through a 600 ohm headphone jack. RF signal input must be from 500 MV to 1 V for proper use. With tubes 2C40, 955, 5Y3, 2/0D3, and 5/6SJ7. Power required: 115 VAC 50-1000 Hz. 9½x8½x20; 48 lbs. sh. Used, reparable ~~$95~~ $55. Checked, ~~$165~~ $95. MANUAL f/TS-186, partial reproduction, $8.50

VOLUME & CURRENT METER



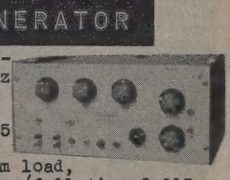
NORTHERN RADIO MODEL 254 VOLUME and CURRENT LEVEL INDICATOR with 34-step, 2 db per step attenuator marked -40-0-+26. Volume meter indicates -20 to +3 db. Has input transformer 20-40000 Hz ±0.7 db 7500 ohms. Select either terminating or bridge input. Current meter shows 75-0-75 MA DC. With tubes 0A2, 6C4, 6X4, and 12AU7. Power required: 115/230 VAC 60 Hz. Size: 5¼x19x7½; 18 lbs sh. Unused w/manual. $50.00

20-1400 MHZ WATTMETER



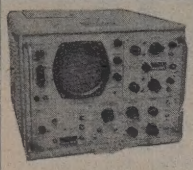
TS-118A WATTMETER, thermocouple type measures RF power over 20-1400 Mhz AM-FM-CW in ranges 20-100 Mhz (2-300 watts), 100-300 Mhz (2-500 W), 300-700 Mhz (2-250 W), and 700-1400 Mhz (2-125 W) depending on thermocouple used. DC millivoltmeter indicate voltage developed and the reading is translated into RF watts by use of calibration charts. SWR less than 1.25:1; Input impedance 50 ohms. Can be used as dummy load with proper adapter (not available). Includes thermocouples MX-1781-1782-1783-1785, tuning shunt MX-1784, connector adapter UG-999, and transit case. 8⅝x6x20½, 48 lbs sh. Used, $165. MANUAL, for above, partial repro, $7.50

PULSE GENERATOR



RUTHERFORD B7B PULSE GENERATOR with 2 Hz to 2 Mhz repetition rate in five bands. Pulse delay: 0.0 to 10K u-sec. Width: 0.05 to 10K u-sec. Pulse output 50 V min. into 50 ohm load, positive or negative. Rise/fall time 0.015 u-sec. Sync pulse out 10 V min., 0.05 usec width; 0.03 usec risetime, positive polarity. Requires 115 VAC 50-60 Hz. 8½x19½x13, 50 lbs sh wt. Used, reparable, $65.00

DUAL-TRACE PRICE-CUTS



AN/USM-140C OSCILLOSCOPE, DC TO 30 MHZ MAINFRAME, SIMILAR TO H-P 170A. INCLUDES MX-2930 DUAL-TRACE VERTICAL PLUG-IN WITH DC TO 22 MHZ PASSBAND. INPUT IMPEDANCE: 1 MEG-OHM SHUNTED BY 30 PF. INPUT SENSITIVITY: 0.02 VOLT/CM TO 20 V./CM. FUNCTIONS: CHANNEL A, CHOPPED, A-B, AND ALTERNATE. HORIZONTAL MX-3078 PLUG-IN SWEEP RATE: 0.1 U-SEC/CM TO 5 SEC/CM. HORIZ. SENSITIVITY: 0.1 V/CM TO 10 V/CM. MAGNIFIER X1 TO X100 IN SEVEN STEPS. CALIBRATOR: 0.2 MV TO 100 V. IN NINE RANGES. POWER REQUIRED: 115/230 VAC 50-1000 HZ. SIZE: 14½x19x22; SHPG. WT: 110 LBS. PRICE: USED, REPARABLE, $195. CHECKED, $295.

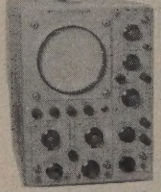
TRANSISTOR TESTER

HICKOK MODEL 1890M TRANSISTOR TESTER, checks transistors in and out of circuit. Collector leakage current (I_{ebo}) ranges: 0-50-500 ua and 50 ma. Collector current (I_c) 0-1-10-100 ma. Current gain Beta: 0-50-100-200-400. AC test signal 1000 Hz. Transistor input resistance range 50-10000 ohms; circuit input impedance 25-100000 ohms. Collector voltages 0-1.5-3-4.5 VDC. Has transistors 4/2N651A, 2N650A. Requires batteries (not supplied) Eveready 763 (22.5 V) and two Burgess 2370-ST (4.5-3-1.5 V). With partial repro of manual. 10x10½x9½, 18 lbs. Used-reparable, $54.50

DUMONT 304 SCOPE

DUMONT 304H OSCILLOSCOPE, has big 5" CRT (5CP1). DC to 100 Khz response; usable to 300 Khz. 100 MV full scale vertical sensitivity. Sweep: 2-30 Khz. Max. sweep rate: 1" per u-sec. Input impedance: 2 meg-ohms paralleled by 50 pf. Graticule not included. Power required: 115/230 VAC 50-60 Hz 9x13½x19; 65 lbs. sh. Used, reparable, $45. 304H SCOPE shipped with 5CP7 CRT, $49.50
DUMONT 304A SCOPE, same as "H" model, but uses 5ADP1 flat-faced CRT. Used, rep., $50. MANUAL for 304A or H, partial repro., $8.50
DUMONT 304AR, like 304A but rackmount, $45.
DUMONT 401 SCOPE, DC-500 Khz, 50 lbs, $60.
HICKOK 770 SCOPE, DC-5 Mhz, 60 lbs, $65.00
BROWNING OL-23 SCOPE, DC-5 Mhz w/triggered sweep and sweep delay; 80 lbs sh, $80 $60.
OS-51/USM-24C SCOPE, 2 Hz-8 Mhz, 63 lbs $60.

DUAL TRACE 15 MHZ SCOPE



TEKTRONIX 516 OSCILLOSCOPE featuring DC to 15 Mhz response, dual-trace, and 5" CRT. Vertical sensitivity: 0.05 to 20 v/div in nine calibrated steps, to 50 v/div using vernier; 23 nsec rise-time. Sweep range 0.2 usec/div to 2 sec/div in 22 calibrated steps, to 6 sec/div with vernier; X5 trace magnifier. Dual trace modes Channels A or B only, chopped, or alternate. Squarewave calibrator in 11 steps from 0.05 to 100 V. Automatic triggering; external trigger requires 0.5-25 V signal. 115 VAC 60 Hz; 13½x9½x21½, 50 lbs sh. W/book. Used-reparable, $185. Checked, $235.

ME-6D VOLTMETER

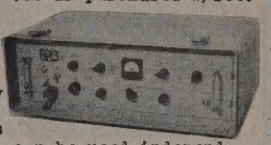
ME-6D/U VTVM, covers 0.005 to 500 V-rms in six ranges and -65 to 57 db. Built-in 15 Hz-250 Khz wide-band amplifier with max. voltage gain of 4500; minimal distortion to 23 VAC output. 115 VAC 50-400 Hz. 11½x6½x5¼, 14 lbs sh wt. Used-reparable, $20. Checked, $40.
MANUAL f/ME-6D, partial repro $8.50

8500-9600 MHZ TEST SET

TS-148/UP SPECTRUM ANALYZER, 8470-9630 Mhz with 3" CRT (3BP1) display. Measures frequencies of cavities, echo boxes, magnetrons, and local oscillators. Receives CW and pulse; transmits CW and FM carrier. 1 MW power output (2K25). Max. spectra dispersion: 1.5 Mhz/in. Requires 115 VAC 60 Hz. 19x13½x25, 45 lbs sh. Used, $50.00
AN/UPM-33 TEST SET, includes TS-148/UP, wave guides, horn antenna, cables, transit case, and manual; 80 lbs sh. Used, $85.00

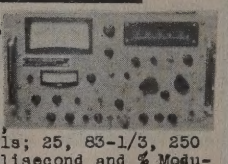
SSB TEST EQUIPMENT

SG-376 TRANSISTORIZED TWO-TONE I.F. SIGNAL GENERATOR for testing SSB equipment. Has two 20 Hz-20 Khz audio oscillators and two independent I.F. oscillators. IF output: 497.5, 498.5, 501.5, or 502.5 Khz only; also 497.5 & 498.5 or 501.5 & 502.5 Khz simultaneously. Output levels: 2-2.5 V into 600 ohms (AF); 1-1.25 V into 50 ohms (IF) with attenuation to 100 db in 1 or 10 db steps. Designed distortion less than 60 db below max signal. Requires 115 VAC 50-450 Hz. 5½x19x11 35 lbs sh. Used-reparable $135; Chkd., $195. MANUAL for SG-376, $7.50 if purchased w/set.

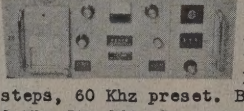


SG-823/URM-144 TWO-TONE REFERENCE SIGNAL GENERATOR, used in the measuring of receiver sensitivity and SSB transmitter distortion. Provides two RF outputs which can be used independently or in combination with no intermodulation effects. Frequency outputs: 2.0, 3.6, 4.0, 7.2, 8.0, 14.4, 16.0, 28.8 Mhz at 100K u-volts max into 50 ohms. Frequency adjust ±0.05% (tone A), ±0.0025% (B). Distortion at least 60 db below max signal. Requires 115 VAC 60 or 400 Hz. 5½x19x11, 35 lbs sh wt. Used, reparable, $125.00; Checked, $185.00 MANUAL for SG-823, $7.50 if purchased w/set.

VLF TEST SETS

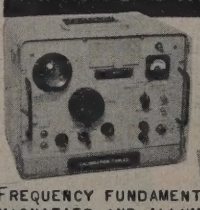


TS-2669 ENVELOP DELAY DISTORTION MEASURING SET Acton mfg; multi-function w/5-digit frequency counter & signal generator over 0.1-600 Khz 10 db max. Provides carrier, reference, & sweep signals; 25, 83-1/3, 250 Hz modulation. Delay Millisecond and % Modulation meters; solid-state. Reparable, $495.



GEO SPACE VLF-12 RECEIVER-PHASE COMPARATOR, solid-state unit used to phase monitor VLF stations; 10-30 Khz range in 100 Hz steps, 60 Khz preset. Built-in chart recorder 1 Khz IF; 100 Khz standard. Built-in chart recorder, 5-place usec counter, 0-80 db attenuator. 115 VAC or 12 VDC in. Reparable $295.

FR-149 FREQUENCY METER

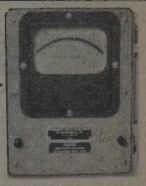


FR-149/USM-159 TRANSISTORIZED FREQUENCY METER, COVERS 125 KHZ TO 1000 MHZ IN THREE RANGES: 125 KHZ-2.5 MHZ, 2.5-65 MHZ, AND 65-1000 MHZ. CAN BE USED AS A SIGNAL GENERATOR BY PROVIDING EITHER MODULATED OR UNMODULATED SIGNALS. FREQUENCY FUNDAMENTALS READ DIRECTLY FROM MAGNIFIED AND ILLUMINATED CALIBRATED FILM STRIP AND THEN INTERPOLATED IN ACCOMPANYING CALIBRATION BOOK. OPERATES FROM EITHER SIX "D" CELL BATTERIES OR FROM 115/230 VAC 50-450 HZ. SIZE: 11½x11½x13; SHPG. WT: 33 LBS. Used-reparable ~~$90.00~~ $75. Checked ~~$120~~ $115

10-44,880 MHZ ANALYZER

TS-1010/UPM-84 SPECTRUM ANALYZER, covers 10 Mhz to 44.88 Ghz in eight bands; 5" (5ADP7) CRT display. Resolution @ 3 db points: 20 Khz all frequencies. Dispersion: 500 Khz-5 Mhz adjustable (10-55 Mhz); 500 Khz to 25 Mhz (55 Mhz up). Spectrum calibrator 160 Mhz center freq -12.5 Mhz. Sensitivty: as low as -63 dbm (10-150 Mhz); -40 dbm (2.0 Ghz up). RF attenuation 100 db uncalibrated internal 10 Mhz-12.4 Ghz; external attenuators required above. IF attenuation 0-60 db in 6 db steps. Requires 115 VAC 60 Hz. 17½x19½x26; 180 lbs sh, 145 lbs net. Used-reparable, $425.00; MANUAL, partial repro, $15. Some ACCESSORIES available-write.

LINE FREQUENCY



FR-40/GSM-1 LINE FREQUENCY METER, portable meter for monitoring power line frequency. 50 to 70 Hz range in 0.2 Hz/div; 4½" wide scale. Input voltage 100-125 VAC. 11½x8½x6½, 10 lbs sh. Used, checked, $75.00

MILITARY TEST EQUIPMENT, used-reparable:
AN/USM-50 OSCILLOSCOPE, 3 Hz-15 Mhz with sweep delay; 3" dia CRT, 80 lbs sh. $75.00
MK-56 PHASE-TEST SCOPE, modified OS-8 (p 33) designed to check selsyn phasing, $45.00
TS-34A/UP SCOPE, 30 Hz-1 Mhz using 2AP1 CRT; controls on side, 8x9x20½, 40 lbs sh, $45.

ORION AC VTVM

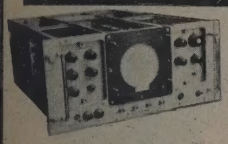
ORION V-100M VACUUM TUBE VOLTMETER with 6"w X 4½"h mirrored scale; similar to Hewlett-Packard 400H. Twelve full scale meter ranges from 0.001 to 300 VAC (rms) or -60 to +50 DB. Response 10 Hz to 4 Mhz. Input impedance 10 megohms shunted by 24 pf (.001-0.3 V) or 14 pf (1-300 VAC). Requires 115/230 VAC 50-1000 Hz. 11½x7½x11½, 22 lbs sh Used-reparable $35. MANUAL-partial repro $10.

DATA TECH 5313

DIGITAL PANEL METER, 0-20 VDC 3½ digits; Data Tech Model 5313-220. Accuracy: ±0.1% reading plus one count. Input impedance: 10 megohms. Has Sperry 7-segment 0.5" readouts. Also auto polarity, overvoltage protection ±200 V.,
Uses standard TTL and linear IC's for easy repair. Manual and schematic included. 4"W x 1-7/8"H x 5½"D. 3 lbs sh. Checked, $39.50

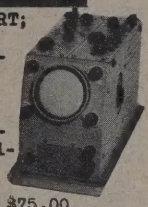
COMMERCIAL TEST EQUIPMENT, used-reparable:
BOONTON 190A Q-Meter, 20-260 Mhz, $235.00
BOONTON 202B FM GENERATOR, 54-216 Mhz, $195.
BOONTON 250A RX-Meter, 0.5-250 Mhz, $265.00
FAIRCHILD 74-13A Calibrated Sweep Delay scope plug-in for 765H/t66H/767H, $125.00
FAIRCHILD 76-08 50 Mhz Dual-Trace amp, $100.
FAIRCHILD 76-01A 25 Mhz Single trace, $35.
GENERAL RADIO 546C Microvolter, $60.00
GR-650A Impedance Bridge w/AC supply, $130.
GR-760B Sound Analyzer, 25-7500 Hz, $85.00
GR-761A Vibration Meter, $80.00
GR-1026A Signal Generator, 9.5-500 Mhz AM; FM and phase lock capabilities w/book, $550
HEWLETT-PACKARD 122AR Oscilloscope, DC-500 Khz dual-trace; rackmount style, $165.00
H-P-175A Scope, DC-50 Mhz dual-trace, $345.
MARCONI TF791D FM Deviation Meter, 4-1024 Mhz; dev ranges 5-25-75-125 Khz w/book $245
MARCONI TF-2300 FM and AM Modulation and Deviation, 4-1000 Mhz range; dev 5-15-50-150 Khz. Solid-state; w/book, $495.00
MILLIPORE Particle Measurement Computer w/ GE video camera; designed to identify atmospheric pollutants by analyzing light refraction the air, ~~$995.00~~ $750.00
WAYNE KERR B801B VHF Admittance Bridge $495.

TRANSISTORIZED SCOPE



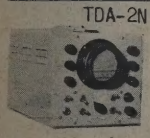
HFE T4214A TRANSISTORIZED SCOPE, British made, uses PC cards for pre-amp, deflection amp, time base, intensity mod, and sweep amp; provision for delay, trigger pick-off, and trigger delay. Approx 300 Khz response; top-to-bottom sweep can be easily changed to left-to-right. Standard oscilloscope controls including 0.1-10 V/div attenuator in 7-steps, 1 usec-10 msec time base 5-steps, X2 multiplier; Time Base Shift, Free Run/Single Shot, etc. Slightly bent frame; less case and power plug. Requires 115 VAC 60 Hz or 12 VDC 1 amp. 9x17x25, 63 lbs sh. (Can be shipped UPS in two packages.) Used, reparable, $50.00

OS-8 OSCILLOSCOPE



OS-8/U OSCILLOSCOPE with 3RP1 CRT; small portable unit has DC to 2 Mhz response. Vertical and horizontal sensitivity: 0.075 v-rms per 1" deflection. Sweep range: 3 to 50 Khz. Input impedance: 9 megohms shunted by 11 pf DC. Direct access to vertical and horizontal plates. Requires 115 VAC 50-1000 Hz. 9x6x13½, 20 lbs sh. Used-reparable, $49.50; Checked $75.00 MANUAL for OS-8, partial repro, $8.50

TELETYPEWRITER SCOPE

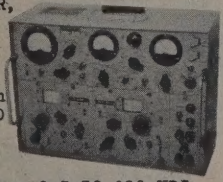


TS-1060 TELETYPEWRITER TEST SCOPE, MEASURES BIAS AND DISTORTION OF START-STOP AND SYNCHRONOUS TELEGRAPH SIGNAL ON A 3" CRT. INPUT SPEEDS APPROX. 60 WPM(5 UNIT CODE), 60,75,100 WPM 7.42 CODE, AND BAUD SPEED EQUIVELENTS TO 60.75,100 WPM (10.42 UNIT CODE). INPUT IMP. 100 OHMS FOR 60MA NEUTRAL; 300 OHMS FOR 20MA NEUTRAL AND 30MA POLAR. MEASUREMENT RANGE 0-50% MARKING, OR SPACING BIAS AND DISTORTION. TUBES: 3RP1,5651,0A2,3/12AT7,6X4,0B2,3/5963, 5726. POWER REQUIRED 115/230V 60HZ. 8x8x15 SHPG. WT: 24 LBS. USED REPARABLE $34.95 (FOUNDATION UNIT)LESS C.R. TUBE $17.95

ME-9 MULTIMETER

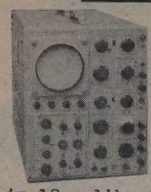
ME-9/TS-352 MULTIMETER, PORTABLE GENERAL PURPOSE VOM. 1000 OHMS/VOLT AC-DC SENSITIVITY OR 20,000 OHMS/V. SENS. DC ONLY. MEASURES AC-DC VOLTS FROM 2.5 TO 1000 V. IN SIX RANGES. DC AMPS FROM 250 U-AMPS TO 10 AMPS IN EIGHT SCALES; OHMS FROM X1 TO X10K. WITH 4" METER (FS=50 UA); JACK FOR 5000 VDC @ 20,000 OHMS/V.; AND TEST LEADS. REQUIRES THREE 4½ VDC AND ONE ½ VDC BATTERIES (NOT AVAILABLE). SIZE: 11½x8½x6; SHPG. WT: 17 LBS. USED. PRICE: REPARABLE, $29.95; CHECKED, $39.95

MULTI-PURPOSE TEST SET



AN/TRM-1 SIGNAL GENERATOR, covers 0.19-400 Mhz AM using two RF oscillators SG-32 (0.19-30 Mhz in 5-bands) and SG-33 (30-400 Mhz). Internal modulation 0-60% @ 1 Khz or 200-6000 Hz external. Output: 2.5 to 100K u-volts in nine steps; 50 ohm impedance. Built-in voltmeter measures 0-3-30-600 VDC, 0-3-30-300 VAC, and 0-10-100-1000 MW. Also tests performance of 3 to 100 watt transmitters over freq. range when proper coupler and dummy load (not included) is used. Write for availability/price of accessories. Requires 115 VAC 60 Hz. 18x13x8; 65 lbs. Shipped UPS in two cartons. Used, reparable $135. Checked, $225. MANUAL, partial repro., $10.

TEKTRONIX SCOPES



TEKTRONIX 545A OSCILLOSCOPE w/ Type CA DUAL-TRACE plug-in; DC to 30 Mhz mainframe (24 Mhz w/CA), sweep delay, two time bases, and 4x10 cm display. Sweep: 0.1 usec to 5 sec/cm in 24 calibrated steps, variable 12 sec/cm (Time Base A); 2 usec to 1 sec/cm in 18 calibrated steps (B). Delay 2 usec to 1 s in 18 calibrated steps. Amplitude calibrator 0.2 mv to 100 V p-p in 18-steps. 5X magnifier; usable with all "letter"-series TEK plug-ins. Requires 115/230 VAC. 17x13½x24, 75 lbs. Used, reparable, $295.00; Checked, $375.00

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TEKTRONIX 585A SCOPE, similar to 545A except DC to 85 Mhz response and includes Type 82 dual-trace plug-in. Used-reparable, $365.00 Checked 585A mainframe w/reparable 82, $435.

Other TEKTRONIX SCOPES; plug-in types priced without plug-in. All used-reparable.

TYPE 511AD 5 Hz to 10 Mhz, 85 lbs sh., $70.
RM15 DC to 15 Mhz single trace, $165.00
536 DC to 10 Mhz X-Y scope; requires two plug-ins, $115.00
543 DC to 30 Mhz single time base; X100 mag, plug-in type, $175.00
551 DUAL BEAM to 15 Mhz, uses two plug-ins; w/external supply, $195.
555 DUAL BEAM to 30 Mhz,w/sweep delay, Type 21 and 22 Time Base plug-ins and external power supply; requires to vertical plug-ins, $250.00
RM561A compact rackmount scope w/2B67 time base and choice of 2A60 1 Mhz or 2Z63 300 Khz diff-plug-in, $195.

TEKTRONIX TYPE 82 DUAL-TRACE SCOPE PLUG-IN, DC to 80 Mhz response for 580-series $175.

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TEK TYPE CA DUAL-TRACE, DC to 24 Mhz for 530, 540, and 550-series scopes, $110.00

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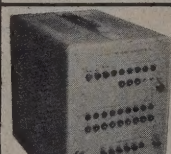
Other vertical amp plug-ins for Tektronix scopes and similar ones by other manufacturers. Add $10 for units of Tektronix manufacture. All "used-reparable":

TYPE C Dual-trace (Hickok only), $90.00
TYPE D, High-Gain, DC differential, $25.00
TEK TYPE M, Four-Trace, $195.00
TYPE G, Wide-band, DC differential, $20.00
TEK TYPE 53/54K, Fast-rise, $45.00
TYPE L, Fast-rise, high-gain, $55.00
TEK 2B67 Time Base for 560-Series, $95.00
TEK 10A2A DC-100 Mhz dual-trace f/647 $195.

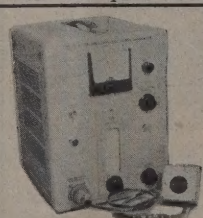


TEKTRONIX 180A TIME-MARK GENERATOR, 14 time-mark intervals from 1 u-sec to 5 seconds. Three sine wave freq: 5, 10, & 50 Mhz. Trigger rate freq: 1, 10, 100 Hz and 1, 10, 100 Khz. Power required: 115/230 VAC 50-60 Hz. Size: 13½x10x16½, 37 lbs sh. Used, reparable $75 Used, checked, $100.00

TEK 180 TIME-MARK, older square-cornered case version of above pictured unit, $62.50

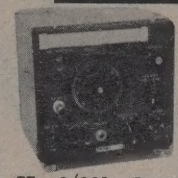
TEKTRONIX 105 SQUARE WAVE GENERATOR, 25 Hz to 1 Mhz directly readable on meter, $65.00

TEK 107 SQUARE WAVE GENERATOR 400-1K Hz, $50.
TEK 160A POWER SUPPLY f/sequence rack, $25.00
TEK 161 PULSE GENERATOR module, $25.00
TEK 162 WAVEFORM GENERATOR module, $25.00
TEK 163 FAST-RISE PULSE GENERATOR module, $25
TEK 181 TIME-MARK GENERATOR, 1-10-100-1000-10K usec plus 10 Mhz sine wave, $60.00



TEKTRONIX 190A CONSTANT-AMPLITUDE SIGNAL GENERATOR with 190A attenuator unit; produces sine waves at constant amplitude in the 350 Khz to 50 Mhz range. Six bands; output continuously variable over entire range. Also 50 Khz position variable over narrow band. Output amplitude variable from 40 mv to 10 v peak-to-peak. 190A attenuator attenuates 0.1, 0.25, 0.5, 1, 2.5, 5, and 10 at nominal impedance of 52 ohms. Requires 115/230 VAC 50-400 Hz. 9½x13½x11; 30 lbs sh wt. Used-reparable ~~$145~~ $125. Checked ~~$165~~ $145.

LM FREQUENCY METER



LM FREQUENCY METER, crystal calibrated unit covers 125 to 20,000 Khz in two bands. Designa accuracy better than 0.02%. Output 250 uv minimum; 600 ohm impedance. 40% AM modulation at 500 Hz. With calibration book, 1000 Khz crystal, and tubes 6A7, 76, 77, 2/991. Requires 12 V 600 ma AC, 260-475 VDC 20 ma. 8½x8x8½, 14 lbs sh wt. Gov't-reconditioned, $24.95; MANUAL, $7.50 w/set. Power input connector for meter, $3.00

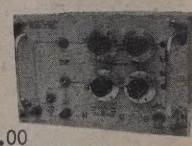
SIGNAL GENERATORS

AN/URM-25 SIGNAL GENERATOR, older version of URM-25F, 10 Khz-50 Mhz AM in nine bands. Output 0-100K uv into 50 ohms. Modualtion 0-50% 400 or 1000 Hz internal. One Mhz crystal calibrator. Requires 115 VAC 50-1000 Hz. Less front cover; 11½x14x10½, 44 lbs sh. Used, reparable, $85. Checked, $130. ACCESSORIES available w/purchase of URM-25: MX-1487 impedance adptr $6. MANUAL, $10. SM-35 antenna simulator, $5. CN-223 5:1 attenuator $5. CN-224 10:1, $6.

* *

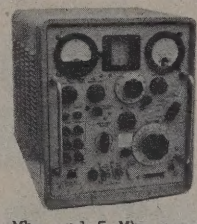
3 TO 405 MHZ

AN/URM-26 SIGNAL GENERATOR, older version of URM-26B, 3-405 Mhz AM-CW in six bands; output 0.1 to 50K uv into 50 ohms. 0-50% internal modulation, 400 or 1000 Hz. Requires 115 VAC 50-1000 Hz. 11½x15½x10½, 42 lbs sh wt. Used, reparable, $90.00; Checked, $135.00 MANUAL, partial reproduction, $10.00 CN-179 10:1 or MX-1289 adapter, $7.50 each.



PLUG-INS FOR HP-524 AND SIMILAR COUNTERS. USED, REP. ADD $10 FOR HP MFG.
MX-1637 10-100 MHZ, $35.
CV-594 100-220 MHZ, $25.
HP-525C 100-500 MHZ, $125.
HP-526A VIDEO AMP, $40.
MX-1636 TIME INTERVAL, $25.00
HP-526C PERIOD MULTIPLIER, $40.00
TRANSIT CASES F/525-526 PLUG-INS. STEEL (11x8x8), $5.00. FIBERGLASS (14½x9½x9), $10.00

TS-510A SIGNAL GENERATOR



TS-510A/USM-44A SIGNAL GENERATOR, 10 to 420 Mhz AM, CW, and pulsed carrier. Internal modulation 400 or 1000 Hz. External mod: 100 Hz to 20 Khz. Output: 0.1 uvolt to 0.5 volt into a 50 ohm load. Large 3½" round meters indicate Percent Modulation and Output Volts-DBM. With built-in 1 Mhz and 5 Mhz crystal calibrator. Similar to Hewlett-Packard 608D. Power required: 115/230 VAC 50-1000 Hz. 13½x16½x21, 80 lbs. Used, reparable with output, ~~$245.00~~ $195.

* *

MANUAL for TS-510A, partial reproduction $10.

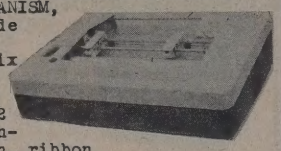
4 TO 405 MHZ GENERATOR

SG-117/URM-26B SIGNAL GENERATOR, 4.0 to 405.0 Mhz AM-CW-pulse in six bands. Compact unit has 0.1 to 100K u-volt output @ 50 ohms. Modulation 400 or 1000 Hz 0-50%. External pulse-mod requires positive 40 V min., 50-5000 pps; duration 2-40 u-sec and 70 ohm input impedance. Requires 115 VAC 50-1000 Hz. 11½x14x10½, 36 lbs sh wt. Used, reparable, $175.00 Checked, $225.00; Manual, partial repro. $10.

ACCESSORIES sold only w/purchase of URM-26B:
CN-315 2:1 attenuator, 50 ohms, $6.00
CN-315 10:1 50Ω $7.50 CN-471 10:1 70Ω $8.
CU-439 impedance matcher, $7.50
BNC cords, 4 ft, $1.25; 6", $1.00

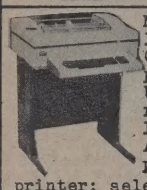
TAKE 40% OFF
PRICES IN THIS COLUMN

PRINTER MECHANISM



MATRIX PRINTER MECHANISM, precision German-made mechanism used in a U.S. assembled matrix printer which had speeds upto 180 CPS bidirectional, 0-132 or 0-158 columns. Includes single platen, ribbon drive, motors, belts, paper guides, etc. In 26"Wx8½"Hx20"D beige plastic case with cast-aluminum base. Cover lifts for easy access. Add your own control/interface electronics and print heads and make it operational. 75 lbs sh wt. #MPM/MI2, unused, $79.50

#MPM-2P/MI2 MECHANISM, same as above except with dual platen; 80 lbs sh. Unused, $130.00



MI2 DESIGN 2400 MATRIX PRINTER, 180 cps bidirectional; 0-132 or 0-158 columns, 96 character set plus elongated print feature. Units are sold "AS-IS, repairs required/no documentation." 175 lbs sh. Used, as-is, $400.00; As-is, less printhead, $300.00

PRINTER EXERCISER for the above printer; selectable baud rates from 50 to 9600. Uses 8080A, 8255A, 8251, 8224, 8228, & 4/2708's. In transit case; 8 lbs sh. $100.00

PRINTER STAND only as shown above; 25"H, 13" x24" support for attaching desk top. 38 lbs; bus or truck shipped only. #PSD/MI2 used $25.

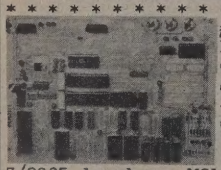
MECHANISM PC BOARDS

#217D-242 CARRIAGE-RIBBON MOTOR DRIVER BOARD, provided outputs for red/blk ribbon solenoid, ribbon motors, and carriage as well as voltages for Processor, Controller, and RAM PCB's. Has power transistors 6/TIP142, 3/TIP-140, 3/TIP145, 2/TIP2955, 2/LM320T-12, 2N3055, etc and 74-series IC's; -40 -5 -9 VDC req. With pin-outs, $16.95

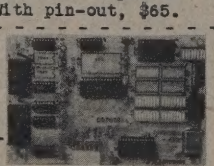
#217D-243 PAPER FEED #1/ HEAD DRIVER PCB, provides outputs for printhead needles, voltages for carriage/ribbon motor PCB, I/O for optical clock, and output to paper feed #2. Has transistors 13/ TIP142, 2/TIP145, 2N3055, 4/MP1455P IC's, and 16/74-series IC's. Requires +40, +9, +5 VDC; 8½x8½. w/pin-out $18.

#217-246 PROCESSOR CPU, has P8085 w/5.185 Mhz crystal, 8255A, 8212, 8253, 3/8205, 4/2114 RAM, 74LS00, 74LS02, 74LS32, 74LS93, and 74LS244. Also sockets for 4/2708 EPROM. Requires +5 VDC (plus +12 & -5 V for 2708's). 10x7; w/pinouts, $60.00

PRINTER INTERFACE PCB

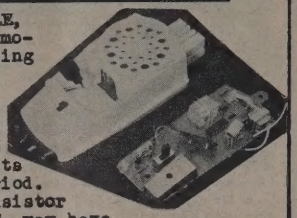


#217E-238 PROGRAMMABLE INTERFACE, has 8080A microprocessor, 8251 programmable communications interface, 2/8255 programmable peripherial interface, 8224 clock generator, 8228 controller, 3/8205 decoders, MC14411 baud rate generator, 4/2111-4 256x4 RAM, 4/4804 1024x4 RAM, 74123, 74196, and 74LS04. Also four 8-place DIP switches for baud rates 75-110-134.5-150-200-300-600-1200-1800-2400-3600-4800-7200-9600 and sockets for 2/2708 EPROM. Provisions for additional 2/2708, 4/4804, 8251, and secondary transmit-receive components. Requires -9 and +5 VDC; 7½x10½. With pin-out, $65.



#217D-249 SERIAL INTERFACE, has 8212 8-bit input-output port, 8251, MC14411, 75188, 75189, 74LS08, 74LS10, two 74LS243, 1.8432 Mhz crystal, five 8-place DIP switches for baud select as on #217E-238 interface. Provision secondary xmit-receive components. -12 -5 VDC 4½x7. W/pin-outs $21.

'SPACE TOY' MODULE



SPACE WARRIOR MODULE, elctronic toy with motor speed and shooting sound effects with flashing LED's. Firing of infrared LED is detected on aggressor module causing "hit" effects and an inactive period. Requires 9 VDC transistor battery. Sold AS-IS, may have cold solder joints or other problem. 6½x2½x1½ 2 lbs sh. #SPW-MOD, $3.95 each; 2 for $6.50

CIRCUIT BOARD only from above module, AS-IS; #SPW-PCB, $2.50 each or 3 for $6.00

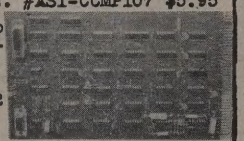
WHISTLE/SOUND ACTIVATED

WHISTLE/SOUND ACTIVATED SWITCH, alternates on-off latching operation. Can be used to control lights, TV commercials, robots, etc. Ten transistors; 2½x3-1/8 circuit board with microphone and schematic. #AST-968S3, $2.50 each.

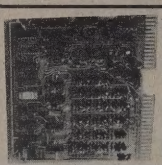
TIME-TEMP SIGN PCB'S

SCR/TRIAC CONTROLLER BOARD with seven each 400 V 4 A SCR's and 200 V 6 A triacs. SCR's trigger the triac gates with a 50 m-sec 16 V pulse that holds all triggered triacs "on" until 24 VDC to SCR's is reset. Originally p/o time-temp sign. 6x6x2¾, 1 lb. #ASI-CMC27, w/schematic $5.50

TRIAC CONTROLLER BOARD w/ eight RCA 200 V 6 A triacs (TO-66), isolation/trigger transformer, shift register, and gates which control each triac. P/o time-temp sign. With schematic and 22-pin edge connector. 4½x8x2¾, 2 lbs. #ASI-CCMP107 $5.95



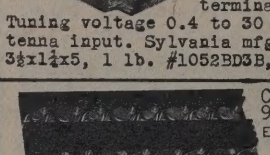
LOGIC CARD p/o time-temp sign controller containing IC's 2/555, 74LS00, 2/74LS08, 5/74LS14, 74-LS20, 6/74LS32, 2/74LS42 2/74LS93, 74LS123, 74-LS237, 74LS367, 7404, 7417, and DS8830. With schematic. 9-3/8x5¾x1⅛, 1 lbs sh. #ASI-503/00, $3.95



MICROPROCESSOR CIRCUIT BOARD, has C4004 P-channel microprocessor, 4/P4001 256x8-bit PROM, 2/P4002-1 320-bit RAM and 4-bit output port, 3/4003 10-bit serial in/parallel-serial out shift register, plus 53 transistors. #IC-07, $3.50

VARACTOR

TV TUNER for channels 2 thru 83; output into 75Ω termination, 20 mv-rms min. Tuning voltage 0.4 to 30 VDC; 300 or 75Ω antenna input. Sylvania mfg; with pinout info. 3½x1¼x5, 1 lb. #1052BD3B, unused, $14.95



CONTROL ASSEMBLIES ON 9x4 HEATSINK. USED, EXCELLENT YIELD ON SEMICONDUCTORS. SHPG WT. 4 LBS EA. SIMILIAR TO PICTURE ORDER BY NUMBER

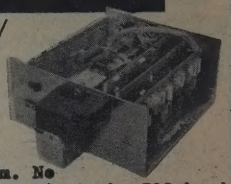
TRANSISTOR CONTROL ASSEMBLY WITH DIODES.

8/TO-3 60v (SIMILIAR TO 2N3055) AND 8/TO-66 (SIMILIAR TO 2N3054) 60v TRANSISTORS, 8/0.4 OHM 5W AND 8/3OHM 3W RESISTORS, 8/DO-4 DIODES WITH INSULATED MOUNTING HARDWARE. #7729 $4.00

TRANSISTOR CONTROL ASSEMBLY, CONTAINS 8/TO-3 AND 8/TO-66 AND EMITTER RESISTORS AS ABOVE. SMALL DIODES AND RESISTORS #0425 $3.50

CONTROL CLUTCH ASSEMBLY AND HEATSINK 9X4 IN. 8/100v TO-3 AND 2/60v TO-66 TRANSISTORS. FIVE 0.4 OHM 10 W RESISTORS, MORE. #095-8139 $2.50

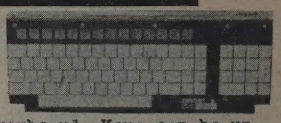
PAPER TAPE READER



TALLY PAPER TAPE READER/ TRANSMITTER, consists of oscillator, receiver, logic, and power supply cards. Uses standard one inch paper tape; selectable 5 or 8 channels, A or U mode. Output can be set to 0,-3,-6,-9,-12 dbm. No specific data but believe this to be 300 baud Requires 115 VAC 60 Hz. Size: 9-5/8x12x4½, 11 lbs sh. #PTR-760-328, used, $14.95

#760-128 TALLY PAPER TAPE READER, similar to above; no selectable output, 100 baud. $8.95

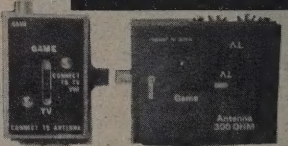
73-KEY KEYBOARD



CHERRY 73-KEY KEYBOARD #B65-59AB or equal. Standard typewriter keys, 0-9 key pad, Enter, Period, Comma. No electronics on keyboard. Keys can be unsoldered for replacement. Boards are little used in good condition. 15½x6½x1½, 3 lbs sh.

#COM-B65-59AB, complete as pictured, $22.00
#SPA-B65-59AB, as above but no space bar $12.
#MIS-B65-59AB, " " " " " " and missing 4 to 6 key switches, $9.00
#PAR-B65-59AB, missing at least 10 key switches; suitable for parts only, $6 2/$10

TV GAME SWITCHES



TV GAME SWITCH as used on many TV video games; 300 ohms, RCA jack, 4" twin lead. 2½x 1½x1, 1 lb. #TW-TVGS, $1.95

SHIELDED TV GAME SWITCH, "Game" RCA jack input is shielded from TV inputs; 300 ohms. 2½x3x1 box also has two screw terminals. Other uses possible. #JA-TVGS. $2.95

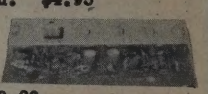
H-K FM TUNERS

HARMON KARDON FM TUNERS with AM capacitors (no AM component) 75 ohm antenna, and 300 ohm IF jacks; ¼" dia tune shafts. With diagram, NSW.

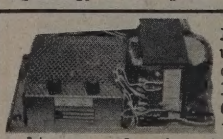
#00331591A, two MOSFET RF stages, MOSFET mixer, two transistor oscillator; 3:1 gear reduction. Requires 13 VDC; 4½x2x4¼. $9.95

#00234339 (Alps), two MOSFET RF stages, MOSFET mixer, IC oscillator; 3-gang variable capacitor, 3:1 gear reduction. 5½x2½x3½. $7.95

#FB113U13 (Alps), one FET, two transistor oscillator; requires -12 VDC. 3½x2½x2¾, 2 lbs sh. $4.95



IF MODULE for FM tuners, 10.7 Mhz; five transistor, three IC, three ceramic filters. With schematic; 6½x3x1¼, 1 lb. #AMB-831, $9.00



PRINTER POWER SUPPLY as used with above. Has AC outputs 2/24, 6, 18, 42-14-0-14-42 V from 115 VAC 60 Hz input. DC rectification required for proper voltages. Also has line filter for external fan, relay for cover interlock, and two fuses. 11x6x4, 18 lbs sh wt. #803-101, ~~$14.95~~ $12.

PRINTER LOGIC BOARD

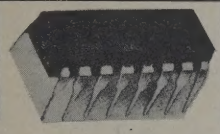
PRINTER LOGIC PC BOARD with over 100 each 74-series IC's, sockets, and tantalum capacitors --plus C8008 CPU, 8/2102 RAM, 10/1702 PROM, six 3341 FIFO, AY5-1013 UART etc. Part of matrix printer; w/pin-out. 20½x14. #217E-224, $35.

TAKE 30% OFF
TOTAL PRICE WHEN YOU BUY ANY 4 CIRCUIT BOARDS BELOW

ON SALE!

CPU'S

RAM'S



TAKE 30% OFF

P8085 CPU,	$9.95	8080A CPU,	$4.95
8212 8-bit I/O	1.75	8205 decoder,	2.00
8251 programmer	5.95	8255 programmer	4.95
2111 RAM $3.	4/$10.	2114 RAM $4.95	4/$17.
4804A RAM $5.	4/$18.	MC14411 baud gen	$9.
AY5-1013 UART,	4.00	3341 FIFO,	$4.00
FRI-502E02 FIFO 6.95			

RC4558 dual op-amp 50¢ MC1488 quad-line, $1.

LM703 RF-IF amp 3/$1. CL9031 CdSe photo 2/$1
FPA103 light reflective transducer, $1.25

CMOS IC's, good pull-outs w/'79 date codes: 4060BE 2/$1.

LM-340T-12 w/heatsink, $1.50

MPS6513 equivalent (Motorola w/0139 house #) NPN RF transistor; 30 V, to 330 Mhz. 6/$1.
MPSA14 NPN darl 5/$1. 2N3055 NPN 10 A, 75¢
2N2222A NPN 6/$2. 2N4126 PNP lo-no 6/$1
2N6346 unijunct 75¢ TIP120 NPN darl. 75¢
TIP140 NPN darl. 95¢ TIP142 NPN darl. $1.00
TIP145 PNP darl $1.00 7808 8 v reg., 3/$1.

1 AMP	50 PIV 20/$1.	35 AMP	50 PIV $1.80
	400 PIV 15/$1.		100 " 2.10
	1000 PIV 10/$1.		600 " 3.50
5 AMP	800 PIV, $1.75	1N3890	100V 12A 4/$3.
MR-sries, 6 AMP		ZENERS, 1 W:	3.3 3.9
MR750	50 PIV 85¢		4.1 10.2 V 4/$1.
MR751	100 " 95¢		11.6 12.0 V 3/$1.
MR752	200 " $1.10	1N2974B, 10 W	10 V
MR754	400 " 1.25		5% stud mt. $1.25

1N1357RA ZENER, 10 W 18 V 5% rev-polarity $1.
VARO VTA200/S 200 V 25 amp bridge rectifier, c.t. cathode, stud mount, $1.00 ea. 4/$3.
#50-100A RECTIFIER, 50 V 100 A conservative; no hardware or pigtail. House #; 2x1". $2.
GE#A70EK113, 200 PIV 100 A, no hardware $3.50

LED'S

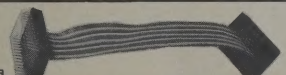
RED, T-1¾ size 8/$1. GREEN 6/$1. DARK RED, HP5082-4697, 6/$1.00
7-SEGMENT NUMERIC DISPLAY, common anode, lefthand decimal HP5082-7730 $1.
SLA-2 DISPLAY; .33", - or -1 and 1, 2/$1.00

IC SOCKETS

8-pin low-profile 5/$1.
14-pin wire wrap 6/$2.
14-pin standard 5/$1.

16-pin stnd.	4/$1.	16-pin l.p.	5/$1.
18-pin l.p.	4/$1.	20-pin l.p. 35¢	3/$1.
22-pin l.p.	3/$1.	24-pin l.p. 40¢	3/$1.
24-pin stnd.	50¢	28-pin l.p. 45¢	5/$2.
28-pin stnd.	60¢	40-pin stnd.	$1.00

JUMPERS



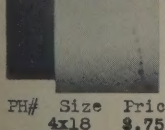
PCB jumpers, unused.
#50-14P2; two 14-pin, 18" long, ~~$2.50~~ 1.95
43-16P1; one 16-pin, 12" " , 1.50 3/$3.
44-16P2; two 16-pin, 48" " , ~~3.00~~ 2.40
43-24P1; one 24-pin, 12" " , ~~2.00~~ 1.50
60-24P2; two 24-pin, 2½" " , ~~2.50~~ 1.75

44-40P2; two 40-pin, 23" " , ~~4.25~~ 3.25
9-14P1; one 14-p, 23" loose leads, $1.75

PC BOARD JUMPERS with IC plug and DP25P, 16": 16-pin, #16/DP25P $4. 24-pin, #24/DP25P, $5.

TEXAS INSTRUMENTS SEMICONDUCTOR MEMORY DATA BOOK (1975), 272 pages, $1.00

COPPERCLAD PCB



Single-side copperclad etching board for making printed circuits. Phenolic (PH) or fiberglass (FIB) backed as noted. Some drilled (d).

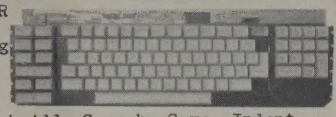
PH#	Size	Price	Size	Price	Size	Price
	4x18	$.75	11x16(d)	$2.	16x18	$2.75
FIB#	12x23 (d)	$3.50				

* * * * * * * * * * * * * * * * * * * *
VERY THIN COPPERCLAD, less than half thickness of above; easily flexed to make cylinders, RF shield, or laminates; fiberglass core. Single-sided (SS) or double-sided (DS).

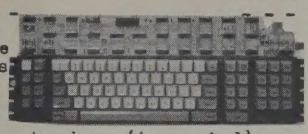
	Size	Th	Price	Size	Th	Price
#VTC-SS	14x18	.019"	$1.75	18x24	.015"	$2.25
#VTC-DS				22x28	.006"	2.50

BUY 5 or more one type, take 20% off price.

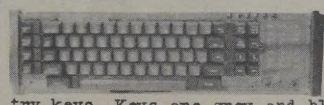
EDITOR KEYBOARD



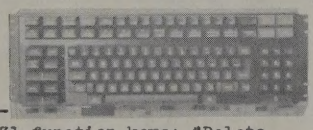
WORD PROCESSOR KEYBOARD, 93-keys including qwerty format and function keys "Help, Move Text, Emph Add, Search, Save, Indent Set, Set Tabs, Setup, Cancel, Enter, Options, Quick List, Command, Msg Get, Back Erase, Skip Back, Prev Page, Next Page, Recall Page, Store Page, Skip Forward," etc. IC's 74LS14, 22-950-3B, 22-908-03, P8021H; 3.57945 Mhz crystal, Almond color keys; Keytronic mfg. 5¾x19x1½, 5 lbs. #A65-02181/3767 NEW $29.50



CORTRON KEYBOARD with ferrite core key switches. Has standard 54-key typewriter format, 12-key numeric pad, and 17 entry keys (4 unmarked). Butterscotch-brown and beige keys; looks like serial input. With IC's 2/7403, 7405, 74155, 4/74145, 74S287, 3/74LS00, LS02, 2/LS04, 2/LS10, LS08, LS11, LS14, LS20, 4/LS74, 2/LS93, CA3086, MC833P, and 80-551276 controller. Requires +5 and -12 VDC; No further info. 6¾x18¼, 4 lbs. #55-500168 NEW, $21.95



KEYTRONICS KEYBOARD with standard 54-key typewriter format and 12-entry keys. Keys are grey and blue; no electronics. 5¾x18, 3 lbs. #A65-01684, NEW, $18.95



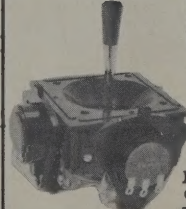
CORTRON 110-KEY MULTI-FUNCTION KEYBOARD with qwerty format, 13-key numeric pad, cursor control keys, and 31 function keys: "Delete, Insert, Erase, Xmit, Xfer, Print, Kboard Unlock, Control Page, Tab Set, FCC Clear/Search FCC Renenable/Status, FCC Generate/Msg Wait, Hang Up," and others. IC's CD4051, LM393, 74LS00, 74265, CD4028, MC14028, P8048H; 6.00 Mhz crystal. May have one or two keys tagged "reject." 7¾x19x1½, 5 lbs. #2893916, $19.95

#113SD30/3137, same as above except has Japanese KANA character function and Microswitch mfg; grey, black, blue, red keys. $28.95

DIODE w/BUILT-IN HEATSINK, approx 100 V 50 amp; 2½ x2" dia plus pigtail. Removed f/ equipment. #KS19404, $2.50

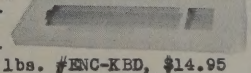
GENERAL INSTRUMENT FULL-WAVE RECTIFIER BRIDGES, new:
#KBPC25-02, 25 amp 200 V, $2.25
#KBPC6005, 6 amp 50 V, $1.25

JOYSTICK



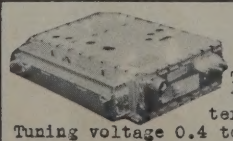
HIGH-QUALITY JOYSTICK with removable center return springs. Uses two Bourn 5K ohm pots with trim adjustments for position centering. 1-3/8"H stem above panel surface; 1¾" depth required behind. O/a approx 2¾ x2¾, 1 lb. #JS-14227 NEW $7.

KEYBOARD ENCLOSURE



KEYBOARD ENCLOSURE for 75-key format including separate numeric pad; unpainted, unassembled. 2¾x20x7½, 4 lbs. #ENC-KBD, $14.95

VARACTOR



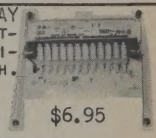
TV TUNER for channels 2 thru 83; output into 75Ω termination, 20 mv-rms min. Tuning voltage 0.4 to 30 VDC; 300 or 75Ω antenna input. Sylvania mfg; with pinout info. 3¾x1¼x5, 1 lb. #1052BD3B, unused, $14.95

POWER SUPPLY REGULATOR BOARD, 2/3401 quad op-amps, 5/741 op-amps, 3/2N5958, 8/2N2222, 4/2N2906, 2N3054, etc. 2 lbs. #PSR32-A1, $2.50

RECTIFIER SCR BOARD with 3/GE122F 50 V 8 amp SCR; 13/1N5402 200 V 3 A; 6/0.39 ohm 5 W and 5 ohm 25 W resistors, etc. #PSR32-A2, $2.25

12-DIGIT FLUORESCENT DISPLAY using DG-10A 1-5/16"H tubes with 5/16"H display; 21 transistors, two IC's, capacitors, resistors, etc. 22-contacts on 5¼x3-3/8 board. #QP-3304 $3.95
FAIRCHILD IC'S: 4/9002, 2/9015, 2/9016, 74180 3/9024, 2/9602, 9/2N2222 plus resistors, diodes, etc. 2 lbs. sh. #C200504G1, $1.95
TAILY OSCILLATOR, ferrite coils 81.9-72.5-44.7-42.9-35.6-34.9-30.2 mHy, 39/50 V capacitors .001 to .47 mf, 9/2N3565, 2N3643. $2.95

TWELVE DIGIT FLUORESCENT DISPLAY #POS2, 3/8" DIGITS WITH CHARACTERS 0 THRU 9, -, -, ', AND DECIMAL POINT. TUBES ABOUT 2" HIGH. ALSO 2/MS812 COUNTER IC'S, 27 TRANSISTORS, AND OTHER PARTS. 9x8½x2½, SHPG. WT: 4 LBS. $6.95



DIODE MATRIX 34 X 20 CONTAINS 90 DIODES IN4004 OR EQUAL. 6x11 #005330 $3.95

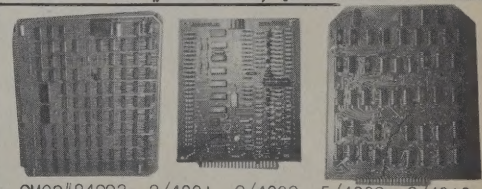
DIODE MATRIX 25 X 7, 23 TRANSISTORS, DIODES WITH 22 PIN SOCKET. 7x4½, #2010200

CORE MEMORY ARRAY 2 SECTIONS EACH 52 X 52 BOARD SIZE 13x13x1½ #2162301 5 LB $3.95

SMALL CORE MEMORY ARRAY, 2 SECTIONS APPROX 65x15 EACH. 4 REED RELAYS 2/3PST, 2/5PST 7x4½x½ #2006000 $2.95

ENDERSOR DRIVER 4/DM8851 DUAL RETRIGGERABLE MVBR, 7474, 9109 HIGH VOLTAGE HEX INVERTER, 2/7400, 7420, 7406, 18 BYPASS CAPACITORS. TO-3 TRANSISTOR ETC 1 LB #484-0001801 $1.50

INDUCTOR BOARD, has 3/200 uH and 2/1200 uH inductors ⅝"H x 1-3/8" dia; also 3/4000 mf 20V 3/3000 mf 25 V axial capacitor 2N5039, 2N2219, LM339, 1741. 3 lbs sh wt. #54-014535, $2.95



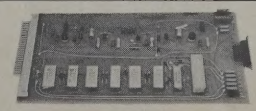
CMOS#84293; 3/4001, 2/4002, 5/4009, 2/4010 4/4011, 2/4012, 7/4013, 4021, 2/4022, 7/4023 2/4025, 2513 A 64x8x5 CHARACTER GENERATOR 7417. 9x7½, SH WT 2LBS #84293 $7.50

CMOS-K1; 6/4008, 4/4009, 4/4011, 2/4012 7/4013, 9/4016, 5/4022, 2/4023, 4024,5/4040 9x7½, SH. WT. 2 LBS #CMOS84292 $6.95

CMOS #14007; 4/4001, 2/4011, 2/4013, 4042, 4558 DUAL OP-AMP, 23 TRANSISTORS, MANY RESISTORS, CAPACITORS. 1 LB #14007 $2.95

* * * * * * * * * * * * * * * * * * * *

IC BOARD #595254: 3/9322 QUAD 2 INPUT MULTIPLEXER, 7402, 7404, 7406, 7410, 3/7438, 741, 7442. 1 LB #595254 $1.95



REED RELAY

REED RELAY BOARDS LISTED BELOW CONTAIN 12VDC REED RELAYS AND ASSOCIATED COMPONENTS. ORDER BY BOARD NUMBER. SH WT. 3 LBS.

#5336 1/DPST, 4/5PST, 2/4PST, mercury wetted relay SPDT, 26 diodes. $3.95
#5346 12/SPST, DPST, 2/DPST mercury wetted. 5 transistors, 51 diodes, capacitors 3/25 mf 50 V and 1/47 mf 35 V. $5.95
#5361 3/DPST, 4/SPST, mercury wetted SPDT, 6 transistors, 24 diodes, and misc capacitors and resistors. $3.95
#315D339 Eight Clare HGSM 7004 mercury wetted relays on board, $3.95

MEMORY PCB

Commercially designed PC boards w/position info; less components.

#217-248 6K EPROM BOARD for six 2708 EPROM; with 24-pin socket and connector, $6.00
#217D-101 EPROM BOARD for eigth 1702A EPROM, 4/7404, 2/3404; with edge connector, $2.40
#217D-136 2K RAM BOARD for sixteen 2102 RAM, 4/7404, 7420; with edge connector, $3.00

Fair Radio Sales Co., Inc.
1016 E. EUREKA ST.
Lima, Ohio 45802
P. O. BOX 1105

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Postage Due

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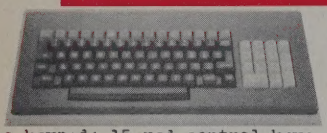
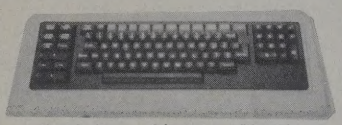
SPERRY KEYBOARDS

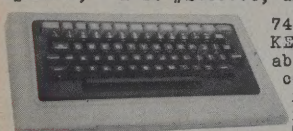


84-KEY MICROSWITCH KEYBOARD, standard qwerty format with 13-key numeric keypad; 15 red control keys. IC's SW-10667 MC836P, SW-20339K controller. Grey keys and case; 7¼x17½x2⅝ 4 lb. #84-SD12-14 used $27.95

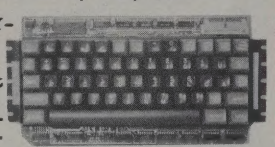
#8120302, same as #84-SD12-14 except with Japanese KANA symbol characters; NEW $39.95



94-KEY MICROSWITCH KEYBOARD with case, standard qwerty keys plus numeric pad and control keys Display ERASE to EOF, EOD ERASE EOL, In Disp DELETE in Line, In Disp INSERT in Line, Cursor to Home, SOE, Insert LINE Delete, Line Dup, Break, Ctl Page Unlock Here Is, Xmit, and other functions. Has 3' cord terminated in DEC-9S connector, IC's 74H04, 74154, SD23593, crystal 5.904 Mhz Black and blue keys in beige plastic case. 8⅛x21x3, 8 lbs. #2889906, unused, $34.95



74-KEY MICROSWITCH KEYBOARD, similar to above except more compact and without numeric pad; 13 function keys. ICs 74H04, 7442, and SD-23093M; 5.904 Mhz crystal. 3' cord w/DEC9S 8½x15x3, 5 lbs sh. #2825479, NEW, $24.95



CORTRON EUROPEAN KEYBOARD, compact size has standard qwerty letters plus "umlaut Ä, Ö, Ü"; numerical keys assigned to "U-I-O-J-K-L-M-,-." locations. Also function keys Numeric, Alpha, Repeat, Reset, LCA, Delete/-Skip, Disp/Auto Off, Field Rel, Char, Field, Rec, Bypass/Prog, Cmnd/Rel, Insert/Dup, V Cor/Ax Dup, Hex, and other symbols. Grey alpha, black numeric, blue control keys. IC's 1455, DM933, CA3086, 7493, 74145, 74LS00-02-04-08-11-74, and 80-551276 controller. No further info. 6x12x1½, 4 lbs. #55-500501/2683 NEW $17.95

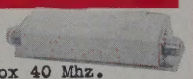
TV-2 TUBE TESTER

TV-2 DYNAMIC MUTUAL CONDUCTANCE TUBE TESTER, checks most military and older commercial receiving and low power xmitting tubes. Test sockets for 4,5,6,7-pin, 7- and 9-pin miniature, loctal, octal, acorn, sub-mini flat and round tube bases. Measures mutual conductance, emission, gas, noise, and shorts. Meters for filament, grid, plate, screen, signal, and transconductance (percent quality). Theoretically, a tube not listed on the roll data chart can be tested by setting the proper voltages on the meters provided those voltages are known. Requires 115 VAC 50-1000 Hz. 17½x8½x16½, 50 lbs sh wt. Used-reparable ~~$95~~ $59.50 Checked, ~~$110.00~~ $95.00
MANUAL, partial reproduction, $10.00

KEY ALARM PANEL

ALARM CONTROL PANEL w/5-position key lock wafer switch, SC628 Sonalert® 6-28 V 3-14 ma, and five panel lights. 11¼x4x8, 2 lbs sh. #ALRM-SC628, used w/key, $8.95

100 WATT LOW PASS



100 WATT LOW PASS FILTER for commercial transceivers; sharp cut-off approx 40 Mhz. 6½x2x1¼ aluminum box with two SO239 connectors. #LPF-40M, NEW, $6.95

50K JOYSTICK

JOYSTICK with four 50K ohm potentiometers having fixed center-taps; smooth ball action. Brushed aluminum handle; 2⅝x2⅝x2⅛. #JS-50K-LIB NEW $5.95

SWR POWER METER

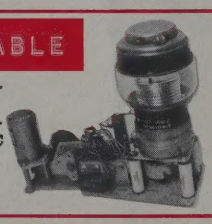
ME-165/G STANDING WAVE-RATIO POWER METER, designed for use with 400 watt HF transmitters; full meter scale of 600 watts. SWR references on meter of 1.5-2-3-4; function switch Power-Adjust-SWR-Operate. Type N input and output connections. Flanged on back for wall mounting. 13½x9⅝x9¼, 18 lbs. Used $49.50

COMPUTER SUPPLIES

COMPUTER POWER SUPPLY, outputs +5 VDC 15 amps and ±12 V 1 A from 115 VAC 60 Hz input. Uses IC regulator to drive 2N3055; also LED status indicators, 4⅛" axial fan, and cover. 6x6½x19 30 lbs. #MA-2149, used $19.95

#FD-2266 DISK DRIVE SUPPLY as above but +5 V 5 A, +24 V 5 A, -5 V 1 A; Wilton mfg. $24.95

VACUUM VARIABLE



RF VACUUM VARIABLE CAPACITOR ASSEMBLY, consists of 7-970 pf 3 KV vacuum variable capacitor with 28 VDC drive motor and gear assy. Will run on 8 VDC and up. #C501/18013, used, $75.00

VOLT-OHMMETER

TS-618/PRM-15 VOLT-OHMMETER, rugged portable VOM with full scale ranges 2.5-10-25-100-250-1000 VDC and RX1 X10 X100 X1K X10K X100K ohms. Has 3½" rd meter, battery self-test, test leads, schematic w/info. Requires 3 "D" cells and -21 & +24 V source. Batteries not available. 8¼x4½x5, 8 lbs. Reparable, $19.95

HF TUNED RECEIVER

R-1440/WLR-6 HF TUNED RECEIVER, solid-state unit operating over 1.5-19.0 Mhz AM-CW on 36 crystal-controlled channels; uses three plug-in band modules with 12 channels each to cover portions of the range. Each module is fully enclosed and shielded and has 12 adjustable antenna circuits, 12 adjustable RF amp circuits, crystal oscillator (uses CR-18 crystals - not available), mixer, 455 Khz IF with Clevite filter, detector, AGC, BFO; controls for BFO, RF Gain, AM/AGC-AM/Man-CW, Channel select. Mainframe which holds three modules, serves as 115 VAC 60 Hz power supply and audio amp; has Volume, Band select 600 ohm Audio jack. Band modules available:
Band 1 (1.5-3.5 Mhz) Band 2 (2.3-5.1 Mhz)
3 (3.4-7.2 Mhz) 4 (5.2-11.8 Mhz)
5 (7.9-19.0 Mhz). Our tests have found that the modules can be operated as independent receivers on 12 VDC input and with addition of an audio amp. Also sensitivity less than 1 microvolt and that modules may be tuned over broader range than specified band limits. No further info. We will ship three different modules of your choice with each mainframe; please specify your second choice. 8⅝x6¼x16⅝, 23 lbs sh. Used-reparable, $175.

TEST OSCILLATOR

SG-71/FCC CARRIER TEST OSCILLATOR, similar to Hewlett-Packard 233A and used to check carrier current systems; 50 Hz to 500 Khz in four bands. High power output: 3 watts into 600 ohms balanced load makes test loops 100 to 200 miles long. 6 V 600 ohm output for audio tests. W/50 VDC output meter; provision for carrier modulation. Requires 115/230 VAC 50-1000 Hz. 11xl7x15, 46 lbs. Used-reparable $65 Checked, $105. MANUAL, partial repro, $10.00